IBM Sterling Gentran:Structure for z/OS

User Guide

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This edition applies to the 6.6 Version of IBM® Sterling Gentran:Structure® for z/OS® and to all subsequent releases and modifications until otherwise indicated in new editions.

Before using this information and the product it supports, read the information in Notices on page N-1.

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Chapter 1 Getting Started

Overview

Welcome to IBM® Sterling Gentran:Structure® for z/OS®.

As a subsystem of IBM® Sterling Gentran:Basic® and IBM® Sterling Gentran:Realtime®, Sterling Gentran:Structure is an optional component of the most sophisticated EDI management software available. Sterling Gentran:Structure combines with Sterling Gentran:Basic/Realtime to provide advanced capabilities for translating EDI communications. With Sterling Gentran:Structure, you can process communications across different standards formats simply and efficiently.

This chapter introduces Sterling Gentran:Structure, including features and benefits, system architecture, and system operation. It contains the following topics:

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Introduction

The need for Sterling Gentran:Structure is a result of businesses' developing data exchange methods. EDI evolved as companies determined that exchanging certain types of business documents was beneficial. They developed file formats that they could exchange between their respective computer systems. These files were typically in a format similar to the business applications.

File Formats and Standards

Usually, the file formats consisted of multiple, 80-character records describing a business document. The fields contained within these records were in a fixed location in each record (hence the term "fixed-format standards"). Many companies developed such systems for trading business documents with each other. This is how the first EDI standards were developed, not by national or international standards committees, but by people involved in particular industries with specific business needs.

Many of those standards, developed almost 20 years ago, remain in use today. Most of them had two things in common that differentiated them from common EDI standard formats such as ASCX12 and EDIFACT:

- Their structure was a fixed-format composition rather than the variable-format structure of ASCX12 or EDIFACT standards.
- The fixed formats required customized programs for processing, because no third-party software was capable of handling these standards.

The first difference still exists. However, with Sterling Gentran:Structure, fixed-format standards now can be processed using the same facilities that hundreds of companies use to process variable-format standards data.

Sterling Gentran:Structure Features

The following features enable you to configure EDI communications to fit your specific needs:

- You can define fixed-format standards to contain either fixed-length segments or variable-length segments. The system supports the full range of data types.
- Sterling Gentran:Structure supports outbound mapping from an application to a fixed-format standard and inbound mapping to a fixed-format standard. All of the mapping features available for variable-format standards in Sterling Gentran:Basic/Realtime also are available for fixed-format standards via Sterling Gentran:Structure.
- You can configure the system to generate proprietary enveloping structures for outbound processing and to extract critical envelope information during inbound processing and map it to the application.
- Sterling Gentran:Structure enables you to audit, track, and control processing of the fixed-format standards data using the Sterling Gentran:Realtime Application Databank facility.
- The system supports sharing of standard definitions, trading partner profiles, application definitions, transaction definitions (maps), data translation tables,

code translation tables, and user-envelope specifications between batch and real-time communications.

System Overview

Sterling Gentran:Structure enables you to define proprietary, fixed-format standards using the Standards Maintenance programs, and to map to and from these standards using the Inbound and Outbound Mapping programs.

Explanation of Standards

A fixed-format standard is a standard in which elements within each segment are of a fixed length and are not separated by an element separator. Further, each segment that comprises the standard is defined by a fixed length and is not separated by a segment terminator.

Examples

The following tables illustrate the different specifications between fixed- and variable-format standards.

Variable Standard		Fixed Standard	
Segment 1 – ID is ABC			
Element 1 – PO Number		**Element 1 – PO Number**	
Minimum Length	1	Length	15
Maximum Length	15	Data	PO123
Data	PO123		
Element 2 – PO Date		**Element 2 – PO Date**	
Minimum Length	6	Length	6
Maximum Length	6	Data	930315
Data	930315		
Element 3 – PO Type		**Element 3 – PO Type**	
Minimum Length	1	Length	4
Maximum Length	4	Data	NEW
Data	NEW		

Variable Standard		Fixed Standard	
Segment 2 – ID is XYZ			
Element 1 – Item Number		**Element 1 – Item Number**	
Minimum Length	1	Length	15
Maximum Length	15	Data	PART123
Data	PART123		
Element 2 – Quantity		**Element 2 – Quantity**	
Minimum Length	1	Length	7
Maximum Length	7	Data	100
Data	100		
Element 3 – Unit of Measure		**Element 3 – Unit of Measure**	
Minimum Length	2	Length	2
Maximum Length	2	Data	EA
Data	EA		

- Thus, variable-format data, with an asterisk (*) as an element separator and a semi-colon as a segment terminator, would appear as follows:

```
ABC*PO123*930315*NEW;
XYZ*PART123*100*EA;
```

- Fixed-format data would appear as follows:

```
ABCPO123bbbbbbbbbb930315NEWb [end of record]
XYZPART123bbbbbbbb0000100EAb [end of record]
```

Note: The symbol "~~b~~" indicates a blank character.

These examples illustrate that the actual length of the segment in variable standards depends on the content of the data. If the quantity specified in the XYZ segment were equal to 10,000 instead of 100, the segment would be two characters longer. If the quantity were changed for the fixed segment, no change would be made in the actual length; instead the number 0000100 would be changed to 0010000. Different alphanumeric values would be handled in a similar manner.

By this example, you can determine that every occurrence of a specific segment in a fixed standard is exactly the same length, while the same segment in a variable standard varies in length depending on the data contained in the segment. This concept holds true for elements: in a fixed standard, an element always starts in the same relative position within a segment. In a variable standard, this concept does not apply.

Sterling Gentran:Structure System Components

The Sterling Gentran:Structure system components are:

- Application and map definitions
- Trading partner profiles
- Batch translation services
- Online services
- Realtime translation services
- Databank facility
- Standards definitions

System Interaction

Figure 1.1 illustrates Sterling Gentran:Structure components interacting in batch and real-time situations.

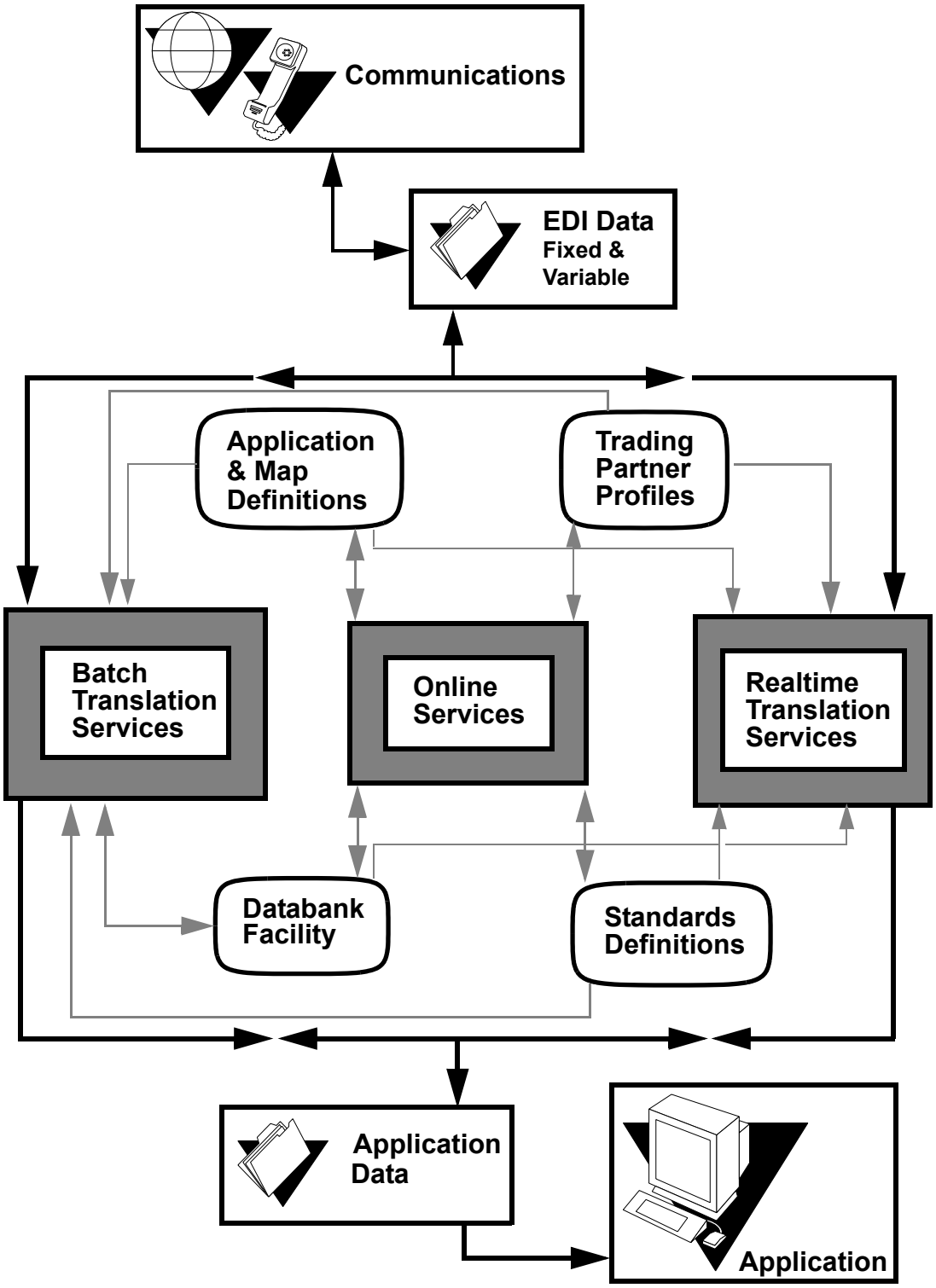

Figure 1.1 Sterling Gentran:Basic Batch and Realtime Interaction

Restrictions on Fixed-Format Data

The following restrictions apply to data that can be processed as a fixed-format standard:

- The standard must have a definable segment ID that occurs in the same relative offset in each segment. This segment ID can measure from one to three characters.
- The segment can contain from 10 to 32,760 characters for fixed-blocked files and from 10 to 32,752 characters for variable-blocked files. Segments contained within a fixed-format standard that are defined as variable-blocked need not have the same record length.
- Inbound fixed-format standards must have a segment or segments that can be defined as "envelopes." These envelope segments must contain information such as partner, user (if processing in relationship mode), version, and transaction set. If any of this information is not available, it must be supplied as a runtime parameter.

System Flow

Sterling Gentran:Structure operates with Sterling Gentran:Basic/Realtime in such a way that current variable-format processing remains unaffected.

Outbound Flow

Figure 1.2 illustrates outbound flow through Sterling Gentran:Structure system components for fixed-format data. The numbers in the illustration correspond to the steps below the figure that describe the flow.

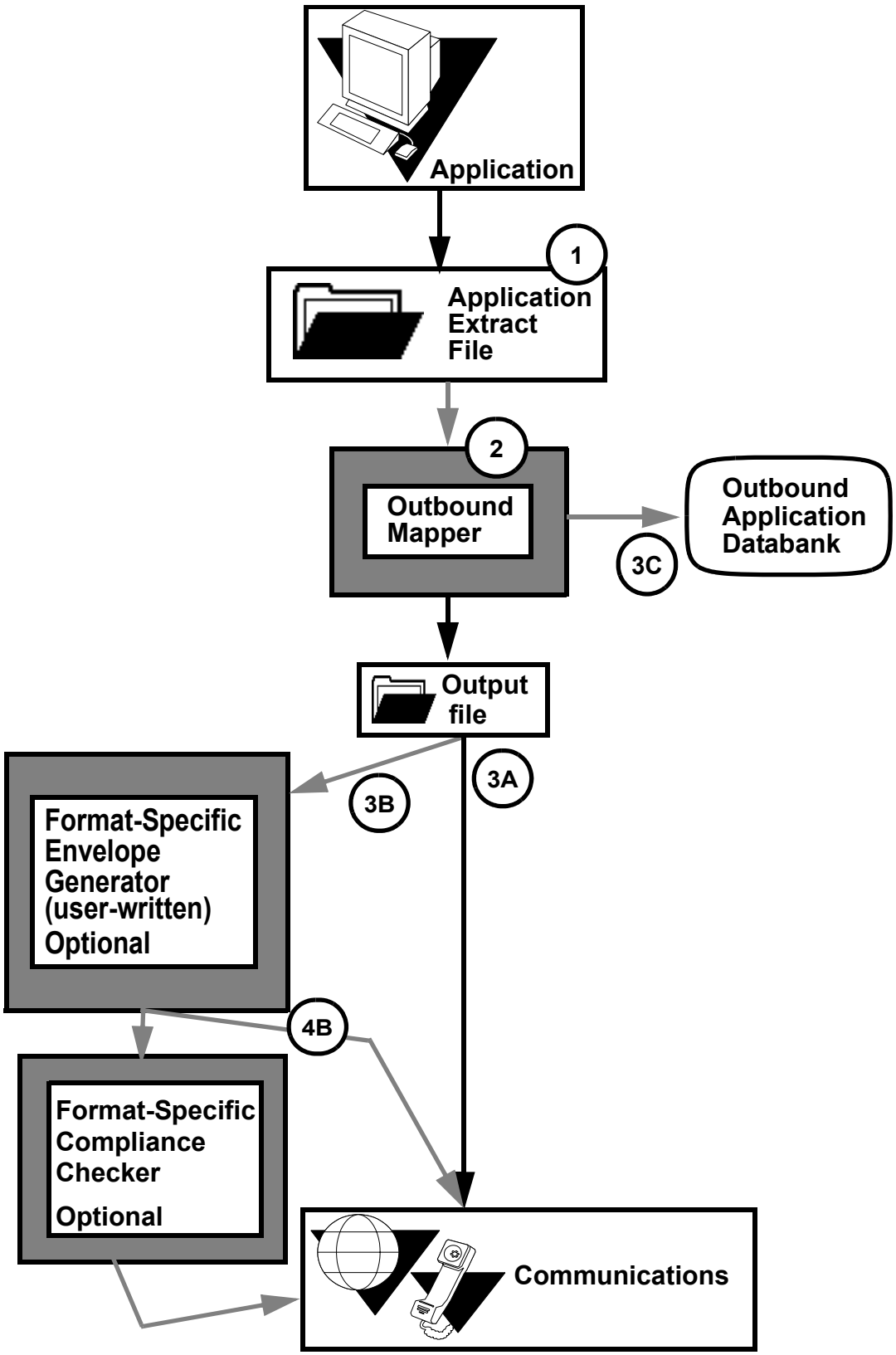

Figure 1.2 Outbound Flow, Fixed-Format Data

The following table describes the outbound flow of fixed-format data through Sterling Gentran:Basic using Sterling Gentran:Structure.

Stage	Description
1	The application places the data in the Application Extract file.
2	The Outbound Mapper program (EBDI042) reads the data in the Application Extract file and translates it into fixed-format data as instructed by the selected map.
3A	If the Mapper defines the data as fixed-format with standard enveloping requirements, the system directs the output to an output file and directly to Communications.
3B	If the Mapper defines the selected map as fixed-format and the standards have enveloping requirements that cannot be satisfied by the Outbound Mapper's User-Envelope Generation facility, the system passes the data to a user-written format-specific Envelope Generator routine.
3C	If desired, the system passes input application data to the Outbound Application databank. Also, if desired (depending on parameters), the system passes fixed standards output to the Outbound Application databank.
4B	• If a user-written compliance-checker is installed, the system passes the fixed-format output data from the Envelope Generator to the Compliance Checker for verification before passing the output to Communications. • If no user-written compliance-checker is active, the system passes the fixed-format data from the Envelope Generator to Communications.

Outbound Flow Features and Limitations

Sterling Gentran:Structure is designed with the following features to facilitate outbound processing:

- Parameters define the type of file to which the system should write any fixed-format output (for example, fixed- or variable-blocked, and record length).
- You can map to the data types supported in the fixed-format standards.
- Sterling Gentran:Structure supports generation of user-defined envelopes. These envelopes optionally can be generated for fixed-format standards. The separate Envelope Generation program (EBDI011M) does not support these envelopes.
- Sterling Gentran:Structure checks the mandatory/optional code for output segments and elements. If a mandatory segment or element is not generated, the system issues a warning message and sets the return code to 4.

Two limitations of Sterling Gentran:Structure outbound processing are:

- Certain proprietary standards have enveloping requirements that are not satisfied by the User-Envelope Generation facility of the Outbound Mapping program. One of these standards is the AISI COMPORD standard. This standard has control totals (message and segment counts) in the header envelope. The Sterling Gentran:Basic normal sequential processing of output does not support this process. Users must develop optional routines to support these types of envelopes.
- The Outbound Mapping program does not perform compliance checking of the output for fixed-format standards, and the Outbound Editor does not process fixed-format standards. Therefore, if your organization requires additional compliance checking of data, you can insert a user-written compliance checker after mapping to perform the function.

Inbound Flow

Figure 1.3 illustrates inbound flow through Sterling Gentran:Structure system components. The numbers in the illustration correspond to the steps below the figure that describe the flow.

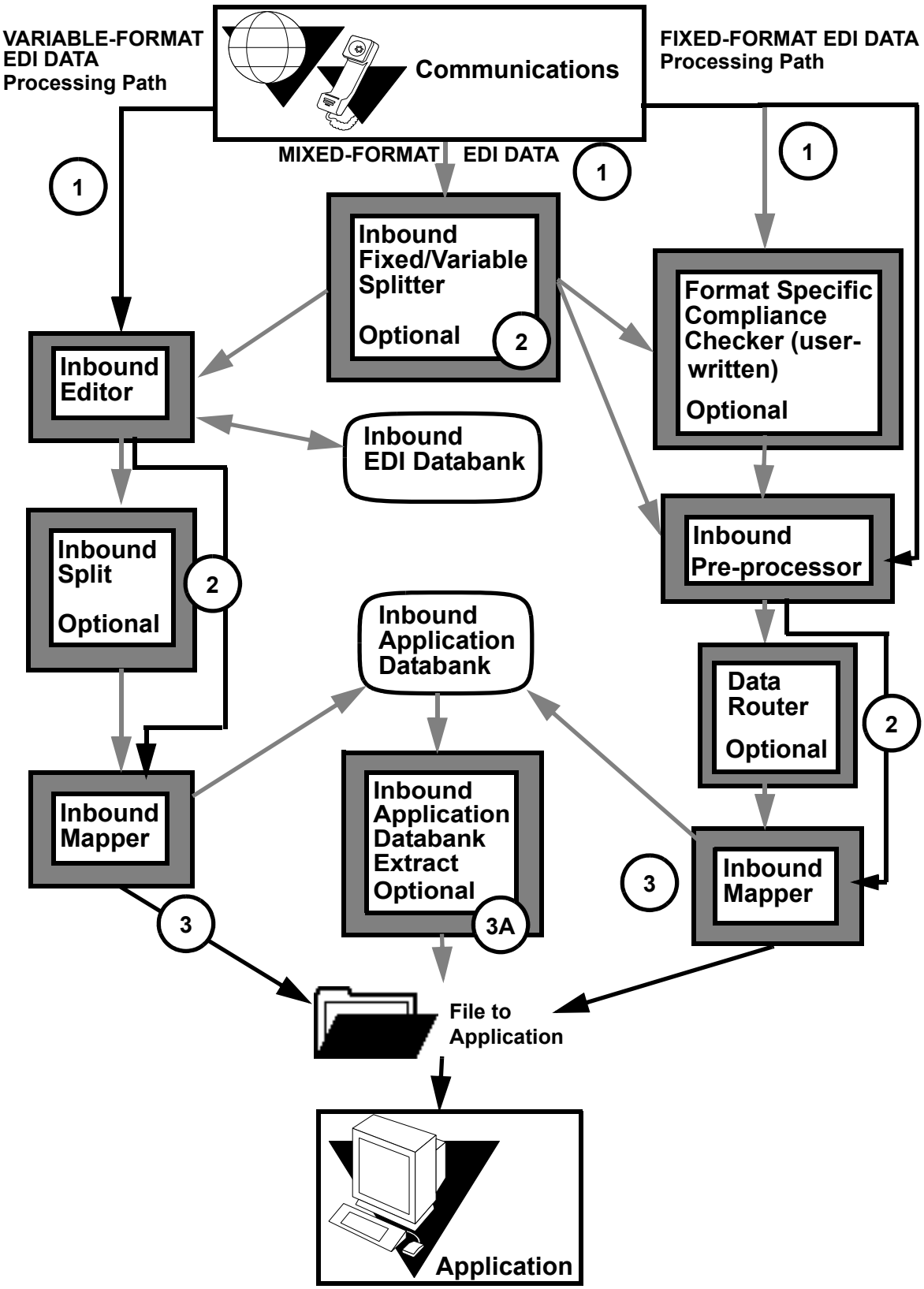

Figure 1.3 Inbound Flow

The following table describes the inbound flow through Sterling Gentran:Basic using Sterling Gentran:Structure.

Stage	Description		
	Variable Format Data	**Mixed-Format Data**	**Fixed-Format Data**
1	The system sends the data from Communications to the Inbound editor.	The system sends the data from Communications to the Inbound Fixed/Variable Splitter to be separated by format type.	The system sends the data from Communications to the Format Specific Compliance Checker, if used, or directly to the Inbound Pre-processor.
2	If the Inbound Splitter is used, the system passes the data to the Splitter and then to the Inbound Mapper. If the Splitter is not used, the system passes the data directly to the Inbound Mapper.	The Inbound Fixed/Variable Splitter: • Sends the variable-format data to the Inbound editor. The data continues on the variable format data path. • Sends the fixed-format data to the Compliance Checker, if used, or directly to the Inbound Pre-processor. The data continues on the fixed-format path.	The system sends the data from the Pre-processor to the data router, if used, or directly to the Inbound Mapper.
3	The Inbound Mapper sends the file to the Application or to the Inbound Application Databank (if used — See step 3A).		The Inbound Mapper sends the file to the Application or to the Inbound Application Databank (if used; see Stage 3A).
3A	(Optional) The Inbound Application Databank Extract program sends the data to the Application.		(Optional) The Inbound Application Databank Extract program sends the data to the Application.

Inbound Flow Programs

The following table describes inbound flow-related programs.

Program	Description
Inbound Fixed / Variable Split program (EBDI094) ***OR*** (EDIR094 for Sterling Gentran:Realtime)	This program is an optional step. You must execute it if the system receives fixed- and variable-format data in a single transmission. **Note:** The input to this program must be 80-character records. The program splits the incoming data into the following categories: • Fixed-format COMPORD data • Fixed-format GM (CISCO) data • Fixed-format GENCOD data • Other fixed-format data • Variable-format EDI data
Inbound Pre-processing program (EBDI083) ***OR*** (EDIR083 for Sterling Gentran:Realtime)	This program performs the identification and partner look-up functions for fixed-format standards, in a manner similar to the Inbound editor for variable-format standards. The program: • Determines the standard version and transaction set. • Determines the trading partner. • Determines the user (if relationship mode processing is specified). • Extracts user-defined envelope information to be passed to the Inbound Mapping program. The program can optionally databank the inbound data. The program suspends data that cannot be identified properly, for later processing.
Inbound Mapping Program (EBDI041) ***OR*** (EDIR041 for Sterling Gentran:Realtime)	The Inbound Mapping program processes data from one of these two sources: • The Intermediate file generated by the Inbound Editing program with variable data (this is the default source of data). This file contains the edited and expanded variable-format EDI data. • The fixed-format output file from the Inbound Pre-processing program (this is the optional source of input). Map selection and mapping functionality are identical, regardless of the source of the input data.
Data Router Program (EBDI095)	The Data Router program allows the inbound fixed-format data to be split into different files for input into separate Mapper runs. Splitting is based on values provided by input parameters (Sterling Gentran:Structure for Sterling Gentran:Basic only).

Inbound Flow Features and Limitations

Sterling Gentran:Structure offers the following features to facilitate inbound processing:

- Specific parameters define whether the input should be processed from the fixed-format input file.
- You can map from the data types supported in the fixed-format standard. These data types include those that are supported for the inbound application definition.
- Sterling Gentran:Structure supports mapping from user-defined envelopes. Special reserved word constants have been defined to hold these elements.
- Sterling Gentran:Structure checks the mandatory/optional code for application records and fields. If a mandatory record or field is not generated, the system issues a warning message and sets the return code to 4.

Limitations include the following:

- The Inbound Mapping program does not perform compliance checking for mandatory fields (such as data types and lengths) and records for the output (Application file) of fixed-format standards.
- The Inbound Editing program does not process fixed-format standards.

Note: If you need additional compliance checking of data, you can insert a user-written compliance checker before mapping to perform the function.

How To Get Help

IBM® Sterling Customer Center provides a wealth of online resources that are available around the clock to enrich your business experience with IBM® Sterling Gentran®. By using Sterling Customer Center, you gain access to many self-support tools, including a Knowledge-Base, Documentation, Education, and Case Management. Access Sterling Customer Center at http://customer.sterlingcommerce.com.

Once logged in, select **Support Center** from the top navigation menu, and then locate Sterling Gentran product-specific support information from the left navigation menu.

Additionally, our Customer Support Reference Guide outlines our support hours, contact information, and key information that will enhance your support experience with us. For detailed information about Customer Support, please refer to the Customer Support Reference Guide accessible from the login page. (http://customer.sterlingcommerce.com)

Chapter 2 Tutorial

Overview

The sections in this chapter are arranged to provide you with a basic understanding of Sterling Gentran:Structure. The steps are organized around the following subjects:

- Setting up and processing a fixed-format standard.
- Using the online facility.

Note: Do not undertake the procedures in the following sections unless your entire system has been installed and is operational.

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Getting Started

This tutorial assumes that you meet the following criteria:

- You understand the business requirements of your application, as well as those of your trading partners.
- You are familiar with Sterling Gentran:Basic/Realtime features and functions.

This tutorial is designed to assist you in creating an implementation plan for your actual organization. The tutorial takes you step-by-step through Sterling Gentran:Structure to set up and process a fixed-format standard and to use the online facility.

Fictitious Standard

This tutorial provides a fictitious, fixed-format example standard called the JASS standard. In addition, we include inbound and outbound maps associated with the standard, a partner to trade with, and sample data matching the fictitious setup.

Tutorial Scenario

By completing the steps in this chapter, you will implement Sterling Gentran:Structure with the fictitious JASS standard, specifically accomplishing the following tasks:

- Create a standard.
- Identify envelope field positions.
- Identify and create a trading partner.
- Tie together the trading partner and standard using envelopes.
- Create inbound and outbound maps.
- Run data through complete Sterling Gentran:Structure inbound and outbound flows to verify results.

JASS Standard

The JASS standard is a fictitious example of a lawn care industry standard, created for this tutorial. The scenarios in this tutorial mirror Sterling Gentran:Basic/Realtime installation and verification.

Note: Throughout the tutorial, the term “your company” indicates your organization within the fictitious scenario.

Fictitious Trading History

Your company sends purchase orders and receives invoices. You were users of the ASCX12 variable-length standard in EDI communications. However, when you began trading with the vendor LAWNVEND, you were obligated to adopt the JASS standard to trade with them.

Your layout for purchase orders is set in the Application Definition POFILE. The layout for invoices is set in the Application Definition INVFILE.

Note: So that you need not modify your existing scenario files, the tutorial provides similar application layouts called POFILEF and INVFILEF.

The transaction maps supporting these scenarios are called JASSPO and JASSIN. Your trading partner, LAWNVEND, and the JASS standard are set up for your use with this tutorial.

JASS Standard Information

The JASS standard contains two document types: purchase order (0909) and invoice (0926). The layout for these documents is illustrated in Figure 2.1. Two envelopes are used: a packet header/trailer and a transaction header/trailer. Other standards may have different requirements.

Some components of the complete scenario are missing. As you proceed through the tutorial, you will complete the scenario. The omissions include the following items:

- The note segment for purchase orders (ONT) and respective elements.
- The packet trailer (PTR) and transaction trailer (TTR).
- Outbound mapping of the ONT segment.

- Mapping inbound control numbers from the PHD and THD envelopes.
- Coding the requirements for the PTR and TTR trailer envelopes outbound.

Note: You can use the sample purchase order and invoice data provided on the installation tape to demonstrate tutorial scenarios and the completed tutorial. However, the missing pieces result in a mapping error when you run installation verification. Because the segments for the trailers are not defined yet, the system sets the return code to 4 in inbound mapping. This code is normal; mapping results are unaffected.

Tutorial Enveloping Process

Figure 2.1 illustrates the enveloping process used in the tutorial example.

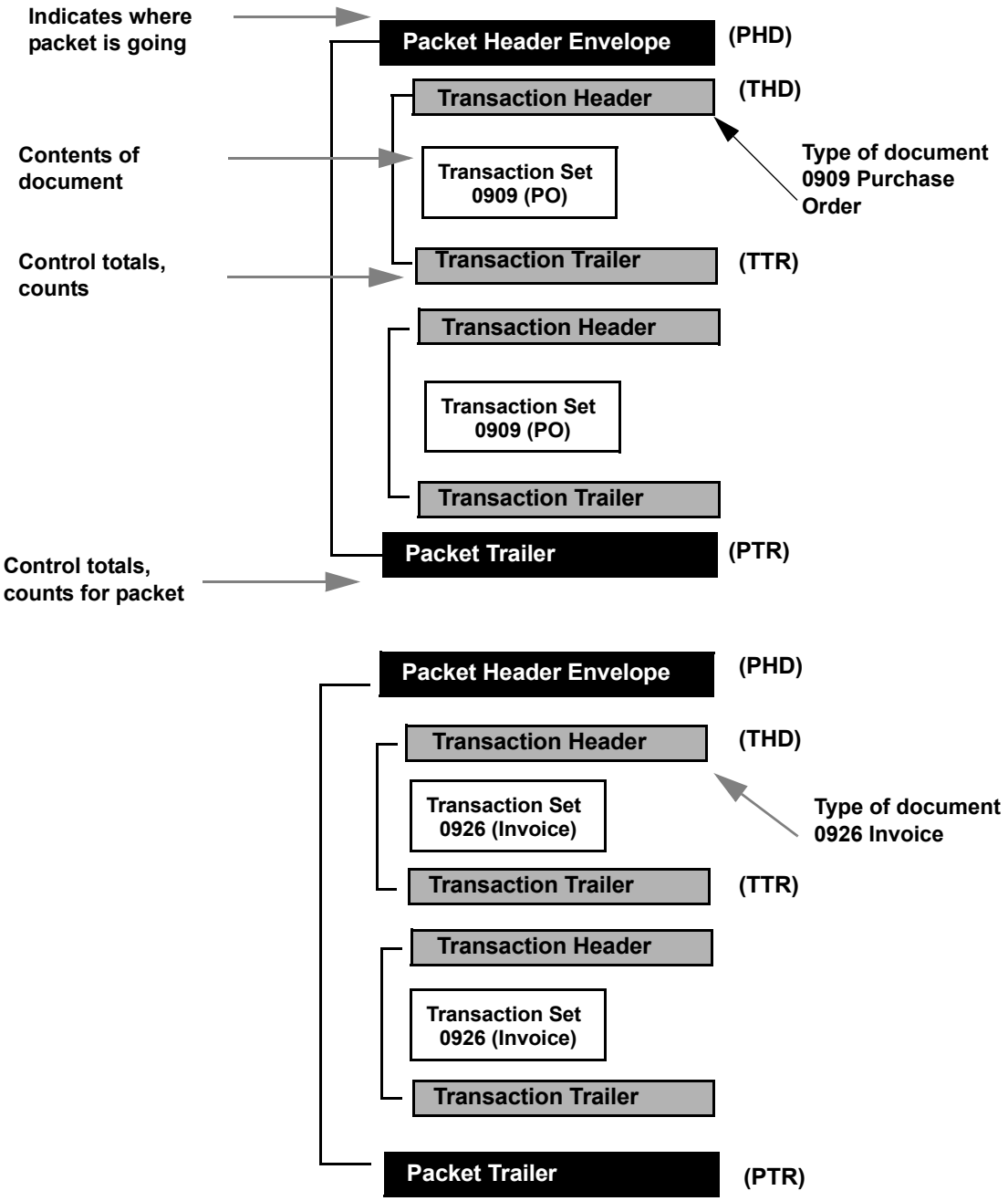


Figure 2.1 Envelope Structure

Guide to Using the JASS Standard

The JASS proprietary standard example is for use between trading partners in the lawn care industry.

The JASS standard contains the following two document types (transactions):

- 0909 – purchase order document
- 0926 – invoice document

A purchase order (0909) contains five distinct segments:

- OHD – purchase order header information
- OAD – address information
- ONT – purchase order notes
- ODT – order detail information
- OSM – order summary information

An invoice (0926) contains four distinct segments:

- IHD – invoice header information
- IRN – invoice remit name information
- IDT – invoice detail information
- ISM – invoice summary information

Data Elements

The JASS standard contains 31 different data elements. Figure 2.2 is the key to reading the JASS standard.

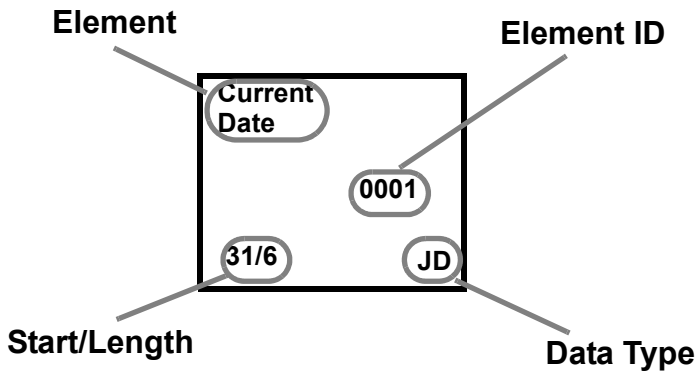


Figure 2.2 JASS Standard Key

Figure 2.3 and Figure 2.5 illustrate the JASS standard.

PHD – Packet Header Segment

Sender ID	Receiver ID	Current Date	Current Time	Standard Identifier	Security Code	Packet Control Number	PHD Segment ID
1/15	16/15	0001 31/6 JD	37/4	41/4	45/6	51/9	78/3

THD – Transaction Header Segment

Transaction Type (Number)	Current Date	Current Time	Transaction Control Number	THD Segment ID
1/4	0001 5/8 JD	13/4	17/9	78/3

OHD – Purchase Order Header Segment

Purchase Order Number	Ship-To Name	Bill-To Name	Date Type	Date	Date Type	Date	Reserve Element	OHD Segment ID
0004 1/6	0006 7/25	0007 32/25	0002 57/2	0001 59/5	0002 64/2	0001 66/5	7 0029 71/7	78/3

OAD – Purchase Order Address Information Segment

Address Code	Address	City	State	Zip Code	Reserve Element	OAD Segment ID
0008 1/2	0009 3/20	0010 23/20	0011 43/2	0012 45/9	24 0024 54/24	78/3

ONT – Purchase Order Notes

Note Type	Note Text	ONT Segment ID
0030 1/2	0031 3/75	78/3

ODT – Purchase Order Detail Segment

Line Item Number	Item Number	Quantity Type	Quantity	Unit of Measure	Price	Extended Price	Item Description
0014 1/4	0015 5/8	0016 13/2	0017 15/6	0020 21/4	0018 25/10	0019 35/14	0021 49/27

Reserve Element 2	ODT Segment ID
0027 76/2	78/3

Figure 2.3 0909 Purchase Order Layout

OSM – Purchase Order Summary Segment

Total Line Items 0023	Total Amount 0022	Reserve Element 57 0028	OSM Segment ID
1/4	5/16	21/57	78/3

TTR – Transaction Trailer

Number of Segment in Trans	Trans Control Number	TTR Segment ID
1/8	9/9	78/3

PTR – Packet Trailer

# of Segments in Packet	# of Trans in Packet	Packet Control Number	PTR Segment ID
1/8	9/8	17/9	78/3

Figure 2.4 0909 Purchase Order Layout

PHD – Packet Header Segment

Sender ID	Receiver ID	Current Date	Current Time	Standard Identifier	Security Code	Packet Control Number	PHD Segment ID
1/15	16/15	0001 31/6 JD	37/4	41/4	45/6	51/9	78/3

THD – Transaction Header Segment

Transaction Type (Number)	Current Date	Current Time	Transaction Control Number	THD Segment ID
1/4	0001 5/8 JD	13/4	17/9	78/3

IHD – Invoice Header Detail

Invoice Number	Purchase Order Number	Date Type	Date	Date Type	Date	Billing Cycle Code	Reserve Element 49
0003 1/6	0004 7/6	0002 13/2	0001 15/5	0002 20/2	0001 22/5	0013 27/2	0025 29/49

IHD Segment ID
78/3

IRN – Invoice Remit Name

Remit-To Name	Address	City	State	Zip Code	Reserve Element 1	IRN Segment ID
0005 1/25	0009 26/20	0010 46/20	0011 66/2	0012 68/9	0026 77/1	78/3

IDT – Invoice Detail

Line Item Number	Item Number	Quantity Type	Quantity	Unit of Measure	Price	Extended Price	Item Description
0014 1/4	0015 5/8	0016 13/2	0017 15/6	0020 21/4	0018 25/10	0019 35/14	0021 49/27

Reserve Element 2	IDT Segment ID
0027 76/2	78/3

Figure 2.5 0926 Invoice Layout

ISM – Invoice Summary

Total Line Items 0023 1/4	Total Amount 0022 5/16	Reserve Element 57 0028 21/57	ISM Segment ID 78/3

TTR – Transaction Trailer

Number of Segment in Trans 1/8	Trans Control Number 9/9	TTR Segment ID 78/3

PTR – Packet Trailer

# of Segments in Packet 1/8	# of Trans in Packet 9/8	Packet Control Number 17/9	PTR Segment ID 78/3

Figure 2.6 0926 Invoice Layout

Developing a Configuration Strategy

Before you can configure Sterling Gentran:Structure in this tutorial, you must make decisions regarding the following issues:

- What standards information do you want to create?
- What envelope field positions will you need?
- With which trading partner do you want to do business?
- What envelopes (headers and trailers) do you want to use to convey information?
- What information do you want to exchange with your trading partner?

Creating a Standard

The JASS standard, a fictitious standard used by the lawn care industry, is completed and ready for your use with this tutorial. The following table provides a concise listing of the JASS standard information explained in "Guide to Using the JASS Standard" on page 2-7. Use this table as a reference tool.

Guide to Using the JASS Standard
JASS Standard Transactions The following two document types (transactions) are contained in the JASS standard: • 0909 – purchase order document • 0926 – invoice document
Purchase Order Segments A purchase order (0909) contains the following four distinct segments: • OHD – purchase order header information • OAD – address information • ODT – order detail information • OSM – order summary information
Invoice Segments An invoice (0926) contains the following four distinct segments: • IHD – invoice header information • IRN – invoice remit name information • IDT – invoice detail information • ISM – invoice summary information
Data Elements The JASS standard contains 31 different data elements.

Screens

You use the following Sterling Gentran:Basic/Structure screens to create a standard:

- Version screen (EDIM110)
- Transaction screen (EDIM120)
- Segments screen (EDIM130)
- Segment Element screen (EDIM140)
- Data Element Definition screen (EDIM160)
- Data Element Codes Values screen (EDIM170)
- User Envelope Specification screen (EDIM190)
- Version/Outbound Specification screen (EDIM191)

Note: For detailed information about using these Sterling Gentran:Basic screens, see Chapter 3, "The Standards Subsystem," in the *IBM® Sterling Gentran:Basic® for z/*

OS® Release 6.6 User Guide, or Chapter 3, “Screens,” in this guide.

Exercise

Complete the following steps to create a standard. The screens already contain information for the JASS standard.

1. From the Standards Maintenance Menu, type **2** to select Version and press **Enter**.

   The system displays the Version screen.

2. Type **JASS** in the Version ID field and press **Enter**.

```
EDIM110 2.2_______                VERSION                  XXX     06/01/2011
                                                                     12:00:00



   Version Id.......:  JASS________

   Agency...........:  SC_

   Description......:  LAWN_CARE_PROPRIETARY_STANDARD_____________________________

   Envelope Type....:  D  (A=ANA, E=Edifact, T=TDCC, X=X12, D=User Defined)

   Update Allowed...:  Y  (Y/N)


                                                 Last Update Date: 06/01/11
                                                              Time: 12:00:00
                                                              User: XXX

Enter PF1=Help PF2=Tdir   PF3=Exit PF4=Vdir       PF5=Trans      PF6=Nxt Vers
                        PF9=Add PF10=Updt
```

   The system displays the following standards information already entered on the Version screen for the JASS standard in this tutorial. If you were creating your own standard you would enter your own appropriate values.

Version Screen	
Field:	**Entered Value:**
Version ID	JASS
Agency	SC
Description	Lawn Care Proprietary Standard
Envelope Type	D – User Defined
Update Allowed	Y

3. Press **PF5=Trans**.

The system displays the Transaction screen for the first transaction (0909).

```
EDIM120 2.5_______            TRANSACTION                  XXX     06/01/2011
                                                                     12:00:00


  Transaction Code.....:  0909__
  Version Id...........:  JASS________   Agency.:  SC_
  Description..........:  PURCHASE_ORDER_____________________________________
  Functional Id........:  0909__
  LS/LE Bounding Ind...:  _  (Y/N/ )
  NTE Float Ind........:  _  (Y/N/ )
  Number of Segments...:  0004          Repeat Ind:  N (Y/N)




                                                  Job Name: __________

                                                  Last Update Date: 06/01/11
                                                              Time: 12:00:00
                                                              User: XXX

Enter PF1=Help PF2=Vers   PF3=Exit PF4=Tdir       PF5=Segment    PF6=Nxt Tran
                        PF9=Add PF10=Updt PF11=Del            PF14=VTdir
     PF7=Rpt
```

4. Press **PF6=Nxt Tran**.

The system displays the Transaction screen for the 0926 transaction.

```
EDIM120 2.5_______            TRANSACTION                  XXX     06/01/2011
                                                                     12:00:00


  Transaction Code.....:  0926__
  Version Id...........:  JASS________   Agency.:  SC_
  Description..........:  INVOICE_____________________________________________
  Functional Id........:  0926__
  LS/LE Bounding Ind...:  _  (Y/N/ )
  NTE Float Ind........:  _  (Y/N/ )
  Number of Segments...:  0004          Repeat Ind:  N (Y/N)




                                                  Job Name: __________

                                                  Last Update Date: 06/01/11
                                                              Time: 12:00:00
                                                              User: XXX
PRESS PF6 TO REVIEW NEXT TRANSACTION RECORD
Enter PF1=Help PF2=Vers   PF3=Exit PF4=Tdir       PF5=Segment    PF6=Nxt Tran
                        PF9=Add PF10=Updt PF11=Del            PF14=VTdir
     PF7=Rpt
```

The following table describes information already added to the Transaction screen for the tutorial. JASS transactions are 0909 and 0926 only. If there were more transactions you could continue to press **PF6=Nxt Tran** to view or edit that information.

If you were creating your own standard, you would enter your own appropriate information on this screen.

Transaction Screen	
Field:	**Entered Value:**
For Purchase Order	
Transaction Code:	0909
Version ID:	JASS
Agency:	SC **Note:** The Agency field requires a value, however, you can enter any option. The value will not affect processing.
Description:	Purchase Order
Functional Id:	0909
Number Segments:	4
Repeat Ind:	N
For Invoice	
Transaction Code:	0926
Version ID:	JASS
Agency:	SC
Description:	Invoice
Functional Indicator:	0926
Number Segments:	4
Repeat Ind:	N

5. Type `0909` over the value in the Transaction Code field and Press **Enter** to return to the Purchase Order transaction for this tutorial.

6. Press **PF5=Segment**.

The system displays the Segments screen for the 0909 transaction.

```
Add Delete Update Select Info
EDIM130 2.6_______          SEGMENTS                        XXX      06/01/2011
                                                                       12:00:00


    Version Id......: JASS________    Agency..:  SC_
    Transaction ID..: 0909__

   ******Segment******    Man ***Use***  **Loop***  DE    Seg  Loop   LP  Act
A   No    Id   Ver Ty Req Cde Min   Max  Min   Max  Count Grp   Id    B/E Cnt
_  0010   OHD_  00  H   _    M   1 _____1   _ ______   ___8  __  ______  _  ___
          PURCHASE_ORDER_HEADER_____________________________________________
_  0020   OAD_  00  H   _    O   _ _____3   _ ______   ___6  __  ______  _  ___
          ADDRESS_INFORMATION_______________________________________________
_  0040   ODT_  00  D   _    M   1 _____1   1 __9999   ___9  __  ODT___  B  ___
          PURCHASE_ORDER__DETAIL____________________________________________
_  0050   OSM_  00  S   _    M   1 _____1   _ ______   ___3  __  ______  _  ___
          PURCHASE_ORDER_SUMMARY____________________________________________
_  ____   ____  __  _  _   _   _ ______   _ ______   ____  __  ______  _  ___
          ____________________________________________________________________

END OF SEGMENTS
Enter PF1=Help            PF3=Exit PF4=Trans      PF5=Elements   PF6=Nxt Tran
      PF7=Bwd  PF8=Fwd
```

The following information has already been added to the 0909 Segments screen.

Segments Screen										
Field:	**Seg Num**	**Seg ID**	**Ty**	**Man Cde**	**Max Use**	**Max Loop**	**DE Count**	**Loop ID**	**LP B/E**	**Description**
Entered Value:	0010	OHD	H	M	1		8			Purchase Order Header
	0020	OAD	H	O	3		6			Address Information
	0040	ODT	D	M	1	9999	9	ODT	B	Purchase Order Detail
	0050	OSM	S	M	1		3			Purchase Order Summary

7. In the Transaction ID field, type **0926** and press **Enter** to display the segment screen for the invoice.

The system displays the Segments screen for the 0926 transaction.

```
Add Delete Update Select Info
EDIM130 2.6_______          SEGMENTS                          XXX     06/01/2011
                                                                        12:00:00


    Version Id......: JASS________    Agency..:  SC_
    Transaction ID..: 0926__

   ******Segment******    Man ***Use***  **Loop***  DE    Seg  Loop   LP  Act
A   No    Id   Ver Ty Req Cde Min   Max  Min   Max  Count Grp   Id    B/E Cnt
_  0010   IHD_  00  H  _    M   1 _____1   _ ______   ___8  __  ______  _  ___
          INVOICE_HEADER_____________________________________________________
_  0020   IRN_  00  H  _    M   1 _____1   _ ______   ___6  __  ______  _  ___
          REMIT_NAME_INFORMATION_____________________________________________
_  0030   IDT_  00  D  _    M   1 _____1   1 __9999   ___9  __  IDT___  B  ___
          INVOICE_DETAIL_____________________________________________________
_  0040   ISM_  00  S  _    M   1 _____1   _ ______   ___3  __  ______  _  ___
          INVOICE_DETAIL_____________________________________________________
_  ____   ____  __  _  _    _   _ ______   _ ______   ____  __  ______  _  ___
          ___________________________________________________________________

END OF SEGMENTS
Enter PF1=Help            PF3=Exit PF4=Trans      PF5=Elements   PF6=Nxt Tran
      PF7=Bwd  PF8=Fwd
```

The following table lists information already added to the 0926 Segments screen:

Field:	Segments Screen									
	Seg Num	Seg ID	Ty	Man Cde	Max Use	Max Loop	DE Count	Loop ID	Lp B/E	Description
Entered Value:	0010	IHD	H	M	1		8			Invoice Header
	0020	IRN	H	M	1		6			Remit Name Information
	0030	IDT	D	M	1	9999	9	IDT	B	Invoice Detail
	0050	ISM	S	M	1		3			Invoice Detail

How to use

To add the segment information on this screen (as you would need to do if the JASS standard were not set up for you already), you complete the following tasks:

- Type the information for a segment.
- Type **A** in the A (Action Code) field corresponding to the segment
- Press **Enter** to add the information.

8. To select an individual segment to code the elements, type **S** in the A (Action Code) field corresponding to the segment and press **PF5=Elements**.

JASS Standard Segment Element Structures

0909 Purchase Order

The following table details the Segment Element structure for the 0909 purchase order.

Segment	Seg Seq	Sub Ele	Man Ele	Com Ele	Aud Ind	Ele ID	Element Description	ST Pos	Length
OHD	02	00	M	M		4	Purchase Order Number	1	6
	04	00	M	M		6	Ship-To Name	7	25
	06	00	M	M		7	Bill-To Name	32	25
	08	00	M	M		2	Date Type	57	2
	10	00	M	M		1	Date	59	5
	12	00	M	M		2	Date Type	64	2
	14	00	M	M		1	Date	66	5
	16	00	O	O		29	Reserve Element 7	71	7
OAD	02	00	M	M		8	Address Code	1	2
	04	00	M	M		9	Address	3	20
	05	00	M	M		10	City	23	20
	06	00	M	M		11	State	43	2
	10	00	M	M		12	Zip Code	45	9
	12	00	O	O		24	Reserve Element 24	54	24
ODT	02	00	M	M		14	Line Item Number	1	4
	04	00	M	M		15	Item Number	5	5
	06	00	M	M		16	Quantity Type	10	2
	08	00	M	M		17	Quantity	12	6
	10	00	M	M		20	Unit of Measure	18	4
	12	00	M	M		18	Price	22	10
	14	00	M	M		19	Extended Price	32	14
	16	00	M	M		21	Item Description	46	27
	18	00	0	0		27	Reserve Element 2	73	2
OSM	02	00	M	M		23	Total Line Items	1	4
	04	00	M	M		22	Total Amount	5	16
	06	00	O	O		28	Reserve Element 57	21	57

0926 Invoice

The following table details the Segment Element structure for the 0926 invoice.

Segment	Seg Seq	Sub Ele	Man Ele	Com Ele	Aud Ind	Ele ID	Element Description	ST Pos	Length
IHD	02	00	M	M		3	Invoice Number	1	6
	04	00	M	M		4	PO Number	7	6
	06	00	M	M		2	Date Type	13	2
	08	00	M	M		1	Date	15	5
	10	00	M	M		2	Date Type	20	2
	12	00	M	M		1	Date	22	5
	14	00	M	M		13	Billing Cycle Code	27	2
	16	00	O	O		25	Reserve Element 49	29	3
IRN	02	00	M	M		5	Remit-To Name	1	25
	04	00	M	M		9	Address	26	20
	06	00	M	M		10	City	46	20
	08	00	M	M		11	State	66	2
	10	00	M	M		12	Zip Code	68	9
	12	00	O	O		26	Reserve Element 1	77	1
IDT	02	00	M	M		14	Line Item Number	1	4
	04	00	M	M		15	Item Number	5	5
	06	00	M	M		16	Quantity Type	10	2
	08	00	M	M		17	Quantity	12	6
	10	00	M	M		20	Unit of Measure	18	4
	12	00	M	M		18	Price	22	10
	14	00	M	M		19	Extended Price	32	14
	16	00	M	M		21	Item Description	46	27
	18	00	O	O		27	Reserve Element 2	73	2
ISM	02	00	M	M		23	Total Line Items	1	4
	04	00	M	M		22	Total Amount	5	16
	06	00	O	O		28	Reserve Element 57	21	57

Notes: Reserve Elements are place holders used for filler.

See “Standards Maintenance” in Chapter 3 of this guide for more information on segment IDs.

9. On the Segment screen, change the Transaction ID value to 0909 (for the purposes of this tutorial) and press **Enter**.

   The system displays the Segment element information for transaction 0909.

10. Press **PF5=Elements**.

The system displays the 0909 OHD Segment Element screen.

```
Add Update Delete Select Info
EDIM140 2.7_______            SEGMENT ELEMENT              XXX     06/01/2011
                                                                     12:00:00


   Version Id...:  JASS________    Agency..:  SC_
   Segment Id...:  OHD_   Segment Version..:  00

   Seq   Ele  Sub Man Com Ad  Element       **Group**
A  Num   Seq  Ele Ele Ele In  Id   Ver  R    Dsg  Ty  Description          Cd
_  0002  002  000  M   M    _  4____ 00 0001  _____ _  PURCHASE ORDER NUMBER
_  0004  004  000  M   M    _  6____ 00 0001  _____ _  SHIP-TO NAME
_  0006  006  000  M   M    _  7____ 00 0001  _____ _  BILL-TO NAME
_  0008  008  000  M   M    _  2____ 00 0001  _____ _  DATE TYPE
_  0010  010  000  M   M    _  1____ 00 0001  _____ _  DATE
_  0012  012  000  M   M    _  2____ 00 0001  _____ _  DATE TYPE
_  0014  014  000  M   M    _  1____ 00 0001  _____ _  DATE
_  0016  016  000  O   O    _  29___ 00 0001  _____ _  RESERVE ELEMENT 7
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _

END OF SEGMENT ELEMENTS
Enter PF1=Help PF2=Actvty PF3=Exit PF4=Segment    PF5=Elem Def   PF6=Nxt Segm
      PF7=Bwd  PF8=Fwd
```

The following table details the information already added to the screen.

Seg.	Ele Seq	Sub Ele	Man Ele	Com Ele	Ad In	Ele. ID	Ver	Element Description	ST Pos	Length
OHD	02	00	M	M		4		Purchase Order Number	1	6
	04	00	M	M		6		Ship-To Name	7	25
	06	00	M	M		7		Bill-To Name	32	25
	08	00	M	M		2		Date Type	57	2
	10	00	M	M		1		Date	59	5
	12	00	M	M		2		Date Type	64	2
	14	00	M	M		1		Date	66	5
	16	00	O	O		29		Reserve Element 7	71	7

Note: We have displayed the OHD segment of the purchase order *only*. The other segments and elements are in the Standards file for you to view.

11. To select specific elements, select the element by typing **s** in the A (Action Code) field corresponding to the element and pressing **PF5=Elem Def**.

The system displays the Data Element Definition screen.

```
EDIM160 2.9_______        DATA ELEMENT DEFINITION           PRW     06/01/2011
                                                                      12:00:00

   Version Id....: JASS________   Agency.........:  SC_

   Element Id....: 4____          Element Version:  00

   Description:
      PURCHASE_ORDER_NUMBER_____________________________________________

   Element Type..: AN  (AN/ID/R/Nn/DT/D8/TM/T6/T8/CD/B  - ALL STANDARDS)
                       (DD/MM/JD/YY/PD/PJ/PM/PY/Pn/Sn - USER DEFINED )
                       (CM/J8/CY/ZD/ZJ/ZM/ZY          - USER DEFINED )
   Minimum Length: 006

   Maximum Length: 00006

   Composite Code Definition: _____________________ Last Update Date: 06/01/11
                                                           Time: 12:00:00
                                                           User: XXX

Enter PF1=Help            PF3=Exit PF4=Seg Elem   PF5=Code Dir   PF6=Nxt Elem
                        PF9=Add PF10=Updt PF11=Del
```

JASS Standard Data Element Listing

The following table illustrates data elements that are already added on the Data Element Definition screen. Those elements with codes can be optionally added to the Data Element Code Values screen. They are not needed for Sterling Gentran:Structure because no validation takes place. We recommend that you do code them, because the system displays them when the standards are printed.

Element ID	Element Name	DT TP	Lgth	Codes
1	Date	JD	5	
2	Date Type	ID	2	22 = Invoice Date 33 = Expected Ship Date 44 = Actual Ship Date 55 = Purchase Order Date
3	Invoice Number	AN	6	
4	Purchase Order Number	AN	6	
5	Remit-To Name	AN	25	
6	Ship-To Name	AN	25	
7	Bill-To Name	AN	25	
8	Address Code	ID	2	BT = Billing Address SH = Shipping Address RT = Remit Address
9	Address	AN	20	
10	City	AN	20	
11	State	AN	2	

Element ID	Element Name	DT TP	Lgth	Codes
12	Zip Code	AN	29	
13	Billing Cycle	ID	2	30 = 30 Days 45 = 45 Days 60 = Days 90 = Days
14	Line Item Number	NO	4	
15	Item Number	AN	8	
16	Quantity Type	ID	2	OR = Ordered AS = Actually Shipped
17	Quantity	NO	6	
18	Price	N2	10	
19	Extended Price	N2	14	
20	Unit of Measure	ID	4	UOM1 = Box UOM2 = Carton UOM3 = Gallon UOM4 = Pound
21	Item Description	AN	27	
22	Total Amount	N2	16	
23	Total Line Items	N0	4	
24	Reserve Element 24	AN	24	
25	Reserve Element 49	AN	49	
26	Reserve Element 1	AN	1	
27	Reserve Element 2	AN	2	
28	Reserve Element 57	AN	57	
29	Reserve Element 7	AN	7	

12. For this tutorial, type **2** over the value in the Element Id field and press **Enter**.

13. Press **PF5=Code Dir**.

The system displays the Standard Code Directory screen.

```
Select Info
EDIM171 2.10.1____          STANDARD CODE DIRECTORY        XXX     06/01/2011
                                                                      12:00:00


    Version Id:  JASS________   Agency:  SC_  Language.:  EN_
    Element Id:  2____ Element Version:  00   Min/Max..:  002 /  00002

A  Comp Code/Description

_   _  22____INVOICE_DATE_____________________________________________________
_   _  33____EXPECTED_SHIP_DATE_______________________________________________
_   _  44____ACTUAL_SHIP_DATE_________________________________________________
_   _  55____PURCHASE_ORDER_DATE______________________________________________
_   _  _______________________________________________________________________
_   _  _______________________________________________________________________
_   _  _______________________________________________________________________
_   _  _______________________________________________________________________
_   _  _______________________________________________________________________
_   _  _______________________________________________________________________

END OF CODE LIST
Enter PF1=Help            PF3=Exit PF4=Elem Defin PF5=Code Maint PF6=Nxt Code
      PF7=Bwd  PF8=Fwd
```

The following information is already added.

Element ID	Element Name	DT TP	Lgth	I/O	Codes
0001	Date	JD	5	B	
0002	Date Type	ID	2	B	22 = Invoice Date 33 = Expected Ship Date 44 = Actual Ship Date 55 = Purchase Order Date

The standards information is now completely entered.

14. Press **PF3=Exit** twice.

    The system displays the Standards Maintenance Menu.

15. Type **12** to select User Envelope Specification.

The system displays the User Envelope Specification screen.

```
Add Delete Update Version/outbound-specification
EDIM190 2.12______      USER ENVELOPE SPECIFICATION          XXX    06/01/2011
                                                                      12:00:00


Starting Segment ID..: __________


A ---Segment-- -Seg  ID- -Env-  -Usr ID-  -Prt ID- -Associated- Ver  Last Updt
     ID    Mod  Start Ln Lvl D  Start Ln  Start Ln Hdr/Trl  Mod Spc  Date User
_ PHD_______ _  ___78 _3  BI B  _____ __  ____1 15 __________ _  Y  010698 XXX
_ THD_______ _  ___78 _3  BT B  _____ __  _____ __ __________ _  Y  042897 XXX
_ 20________ _  ____1 _3  BI B  _____ __  ____8 _9 99________ _  Y  041796 XXX
_ 20G_______ _  ____1 _3  BG B  _____ __  _____ __ 99G_______ _  N  041796 XXX
_ 20T_______ _  ____1 _3  BT B  _____ __  _____ __ 99T_______ _  N  041796 XXX
_ 99________ _  ____1 _3  EI B  _____ __  _____ __ 20________ _  N  041796 XXX
_ 99G_______ _  ____1 _3  EG B  _____ __  _____ __ 20G_______ _  N  041796 XXX
_ 99T_______ _  ____1 _3  ET B  _____ __  _____ __ 20T_______ _  N  041796 XXX
_ __________ _  _____ __  __ _  _____ __  _____ __ __________ _
_ __________ _  _____ __  __ _  _____ __  _____ __ __________ _

END OF USER ENVELOPE RECORDS
Enter PF1=Help            PF3=Exit
      PF7=Bwd  PF8=Fwd
```

The following table details information already added on the User Envelope Specification screen.

Note: The 20 and 99 envelopes are for the Compord standards.

Element Description	Segment	Seg Start	Length	Env Lvl	Dir	Part Start	Part Lgth
Packet Header	PHD	78	3	BI	B	1	15
Transaction Header	THD	78	3	BT	B		

16. Type **v** in the A (Action Code) field next to the PHD segment ID and press **Enter**.

The system displays the Version Outbound Specification screen for the PHD segment ID.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION          XXX  06/01/2011
                                                                    12:00:00


Segment ID...........:  PHD           Modifier:              Length:  ___80
Default Version ID...:  ____________  Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: ___41       _4      Transaction ID.....: _____      __
Sender ID..........: ____1       15      Receiver ID........: ___16      15
Reference Number...: ___51       _9      Generic Element 1..: ___45      _6
Generic Element 2..: _____       __      Generic Element 3..: _____      __
Generic Element 4..: _____       __      Generic Element 5..: _____      __
Generic Element 6..: _____       __      Generic Element 7..: _____      __
Generic Element 8..: _____       __      Generic Element 9..: _____      __
Generic Element 10.: _____       __      Current Date.......: ___31      _6
Current Time.......: ___37       _4      Current Date Format: YY
                        Last Update Date: 06/01/11 Time: 12:00:00 User: XXX

Enter PF1=Help            PF3=Exit PF4=User                    PF6=Nxt Env
                                PF10=Updt
```

This screen defines and maintains envelope version, transaction set, and outbound specification fields for user-defined envelopes.

The following PHD packet header structure information is already added to the screen.

Segment ID	Envelope Element	ST Pos	Length	Screen Field
PHD	Sender-ID	1	15	Sender ID
	Receiver-ID	16	15	Receiver ID
	Current Date (YY)	31	6	Current Date
	Current Time	37	4	Current Time
	Standard Identifier	41	4	Version ID
	Security Code	45	6	Gen Element 1
	Packet Control Number	51	9	Reference Num

The Date and Time fields receive values during the mapping process. The other information derives from the Partner screens. This screen maintains the envelope structure for the mapping process.

17. From the Version/Outbound Specification screen, press **PF6=Nxt Env**.

The system displays the Version/Outbound Specification screen for Segment ID THD.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION           XXX  06/01/2011
                                                                      12:00:00


Segment ID...........:  THD            Modifier:               Length:  ___80
Default Version ID...:  ____________   Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: _____       __      Transaction ID.....: ____1      _4
Sender ID..........: _____       __      Receiver ID........: _____      __
Reference Number...: ___17       _9      Generic Element 1..: _____      __
Generic Element 2..: _____       __      Generic Element 3..: _____      __
Generic Element 4..: _____       __      Generic Element 5..: _____      __
Generic Element 6..: _____       __      Generic Element 7..: _____      __
Generic Element 8..: _____       __      Generic Element 9..: _____      __
Generic Element 10.: _____       __      Current Date.......: ____5      _8
Current Time.......: ___13       _4      Current Date Format: YY
                          Last Update Date: 06/01/11 Time: 12:00:00 User: XXX
PRESS PF6 TO REVIEW NEXT USER ENVELOPE RECORD
Enter PF1=Help            PF3=Exit PF4=User                    PF6=Nxt Env
                                PF10=Updt
```

The following table illustrates the THD envelope structure information that is already added on the Version/Outbound Specification screen.

Segment ID	Envelope Element	ST Pos	Length	Screen Field
THD	Transaction Type (Number)	1	4	Transaction ID
	Current Date Current Time Transaction Control Number	5 13 17	8 4 9	Current Date Current Time Reference Num

The Segment name field has no reference because it will be mapped as specified on the User Envelope Specification screen.

Partner Configuration

You will complete the following screens to identify a trading partner in this section:

- Partner Selection Menu – EDIM007
- Control Information screen 1 – EDIM015
- Control Information screen 2 – EDIM011
- Group Information screen – EDIM034
- Transaction Information screen – EDIM044
- Name and Address screen – EDIM035

Exercise

For this tutorial, we have created a fictitious trading partner called LAWNVEND.

Note: This portion of the tutorial is illustrated with screens as they appear in Partner/Qualifier processing mode. If you are processing in Relationship mode, your screens will display the fields User and Partner instead of Partner ID and Qualifier. The partner profile ID for Relationship mode for this tutorial is User: YOUR COMPANY; Partner: LAWNVEND. The functionality is the same for either mode.

Complete the following steps to access the Lawnvend trading partner.

1. On the Sterling Gentran Main Menu, type `1` to select the Partner Maintenance Menu.
2. Type `1` to select Partner Directory.
3. Type `s` in the A (Action Code) field beside the LAWNVEND trading partner and press **PF5=Maint**.

The system displays the LAWNVEND Partner Selection menu.

```
EDIM007 1.2_______          PARTNER SELECTION MENU              XXX  06/01/2011
                                                                       12:00:00


           LAWN VENDOR FOR DEMONSTRATION
  Part ID:  LAWNVEND_________________________________     Qual: ________________
  Copy ID:  _________________________________________     Qual: ________________
          Type the number of your selection below and press ENTER,
          or press the PF3 key to Exit.
                       _  1.  Header Information
                          2.  Interchange Directory
                          3.  Group Directory
                          4.  Transaction Directory
                          5.  Name and Address
                          6.  User Defined
                          7.  Data Separation
                          8.  Error Rejection

                          9.  Copy All Records
                                                      Job Name: _________

Enter PF1=Help            PF3=Exit PF4=Dir
```

4. Type **1** to select Header Information and press **Enter**.

   The system displays the Header Information screen for Lawnvend.

```
EDIM026 1.2.1_____            HEADER INFORMATION               XXX   06/01/2011
                                                                       12:00:00


         LAWN VENDOR FOR DEMONSTRATION
Part ID: LAWNVEND                                  Qual:

Description:
            LAWN_VENDOR_FOR_DEMONSTRATION___________
            ________________________________________

Underscore Character :  _
Division . . . . . :  000
Update Allowed . . . :  Y    (Y/N)

Last Update Date . . :  00/00/00    Time . . :  00:00:00    User . . :  SCI




Enter PF1=Help            PF3=Exit               PF5=Idir
```

5. Press **PF5=IDir**.

The system displays the Interchange Directory screen.

```
Select
EDIM027 1.2.2_____          INTERCHANGE DIRECTORY              XXX  06/01/2011
                                                                      12:00:00

         LAWN VENDOR FOR DEMONSTRATION
Part ID: LAWNVEND                                Qual:

   MULTIPLE   HEADER
A  ENV ID     OPTION      VERSION
_               GEN
_
_
_
_
_
_
_
_
_
_
_
TO SELECT INTERCHANGE ENTER AN S BESIDE THE ID
Enter PF1=Help            PF3=Exit PF4=Hdr        PF5=Ctrl
      PF7=Bwd  PF8=Fwd
```

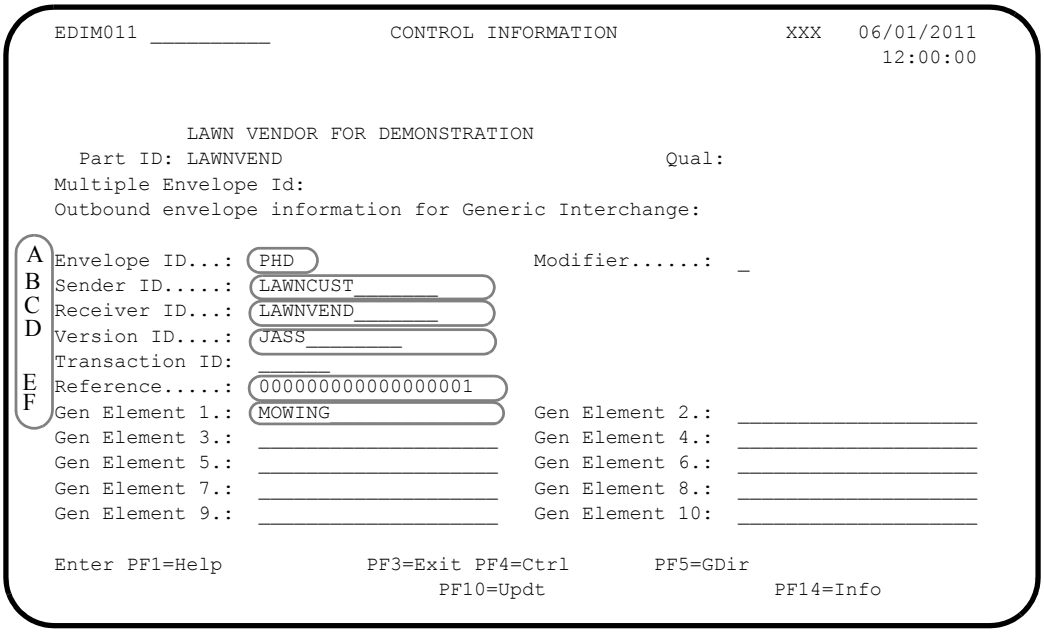
6. Type **S** in the A (Action Code) field next to the **GEN** header option and press **PF5=Ctrl** to advance to the Control Information screen.

   On this screen, we have defined envelope information that we will use for our trading partner. The envelope type we used is 'GEN' – Generic.

```
EDIM015 1.2.2.1___           CONTROL INFORMATION             XXX   06/01/2011
                                                                      12:00:00


         LAWN VENDOR FOR DEMONSTRATION
Part ID: LAWNVEND                                   Qual:
Multiple Envelope Id:  ___                       Version: ____________
Interchange Header Option....:  GEN  (ISA ICS BG GS UNA UNB SCH STX GEN)
Last Incoming Sequence Number:  _______________
EDI Databank Inbound.........:  _ (D/N)         Outbound.........:  _  (F/D/N)
Expect a TA1, AC1, or UCI....:  _ (Y/N)         Network Tracking.:  _  (Y/N)
Acknowledge Interchange......:  _ (Y/N/E)       Errors...........:  _  (Y/N)


Last Incoming BG Password....:  __________       Syntax Version...:  /
Mailbox/Remote ID (For Plus).:  ________
Network ID.(For PLUS)........:  _______________
Viewpoint - Exception........:  _ (Y/N)         Tracking.........:  _  (Y/N)
Reconciliation Delay (days)..:  ___


Enter PF1=Help            PF3=Exit PF4=IDir       PF5=Control    PF6=Next Ctl
                       PF9=Add PF10=Updt PF11=Del                  PF14=Info
```

7. Press **PF5=Control**.

The system displays the Control Information screen 2.



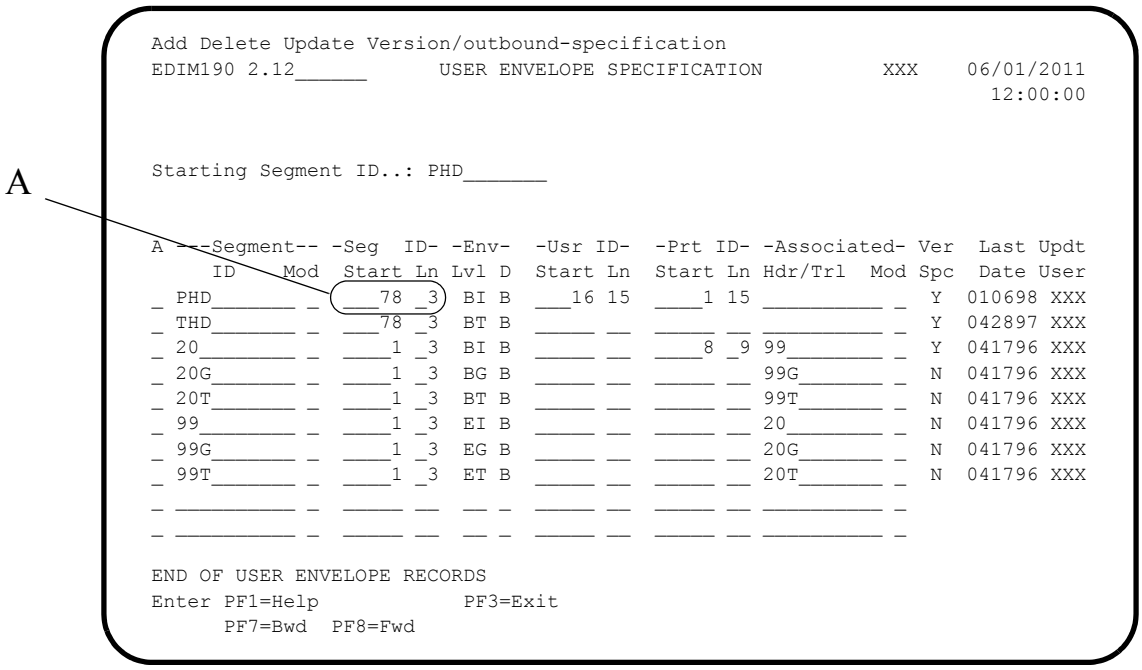
For outbound processing, the envelope-building process uses the partner profile to pass information during the mapping process. The system defines envelope segments in Standards with their respective positions. The partner profiles move the values into those positions in the mapping process. The following table describes the values.

Callout Indicator in Diagram Above	Field	Mapping Information
A	Envelope ID	Maps to position 78 – 80 (Segment ID) as defined on the User Envelope Specification screen in the standards.
B	Sender ID	Maps to position 1 – 15 (Sender ID) on the Version/ Outbound Specification screen.
C	Receiver ID	Maps to position 16 – 30 (Receiver ID) on the Version/Outbound Specification screen.
D	Version ID	Maps to position 41 – 44 (Version ID) on the Version/Outbound Specification screen.
E	Reference	Maps to position 51 – 59 (Reference Number) on the Version/Outbound Specification screen.
F	Gen Element 1	Maps to position 45 – 50 (Generic Element 1) on the Version/Outbound Specification screen.

The following two example screens show the positional relationships formed during the mapping process. The callout indicators on those screens correspond to those shown above.

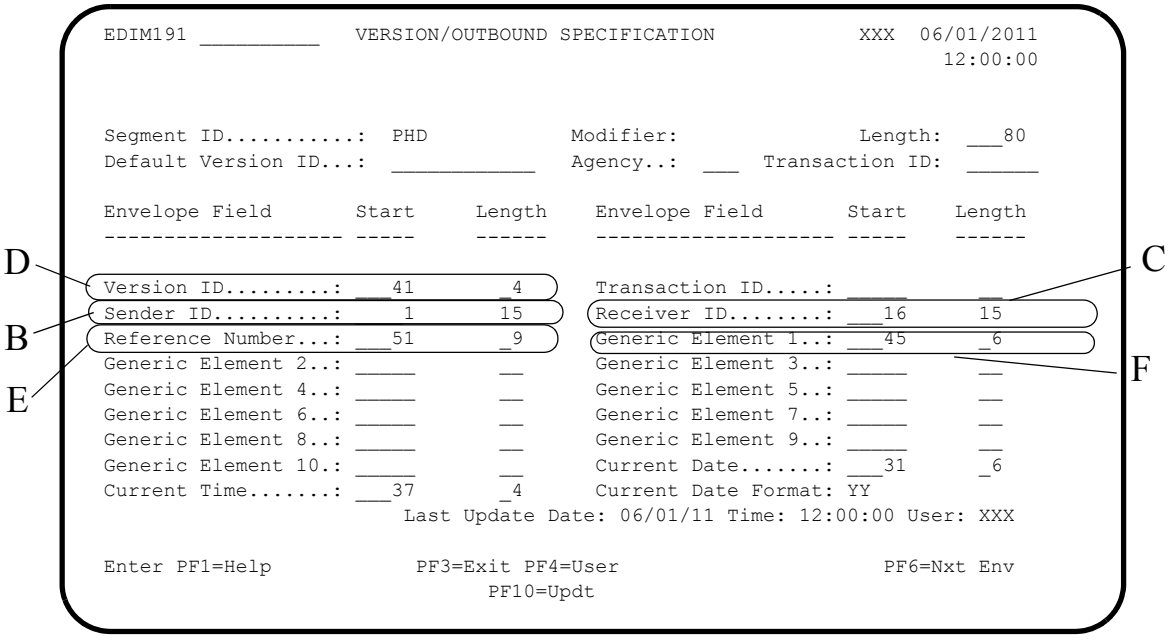
Example 1

The following illustrates the User Envelope Specification screen with the positional relationships created during the mapping process.



Example 2

The following illustrates the Version/Outbound Specification screen with Envelope Structure information.



8. Press **PF5=GDir** on the Control Information screen 2.

   The system displays the Group Directory screen.

9. Type **s** in the A (Action Code) field to select Group ID 0909 on the Group Directory screen and press **PF5=Group**.

   The system displays Group Information screen for the 0909 transaction.

   You must create a group record because this screen will alert the mapping process to call a map from the JASS standard. Mapping requires a group record to indicate which standard (map) to process.

```
EDIM034 1.2.3.1___           GROUP INFORMATION              XXX   06/01/2011
                                                                    12:00:00


           LAWN VENDOR FOR DEMONSTRATION
 Part ID:  LAWNVEND                                 Qual:
Group ID:  0909__        Multiple Env Id:

Outbound envelope information for Generic Group:

Envelope ID...:  ___                    Modifier......:  _
Sender ID.....:  _______________
Receiver ID...:  _______________
Version ID....:  JASS________
Transaction ID:  ______                 Reference.....:  ____________________
Gen Element 1.:  ____________________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________


Enter PF1=Help            PF3=Exit PF4=GDir       PF5=TDir       PF6=Next Grp
                       PF9=Add PF10=Updt PF11=Del           PF14=Info
```

10. Press **PF5=TDir**.

    The system displays the Transaction Directory screen.

11. Type **s** to select the 0909 Trans ID and press **PF5=Trans**.

The system displays the Transaction Information screen. On this screen, we have added the Transaction ID and Reference number to the THD envelope.

```
EDIM044 1.2.4.1___        TRANSACTION INFORMATION            XXX   06/01/2011
                                                                      12:00:00


          LAWN VENDOR FOR DEMONSTRATION
Part ID:  LAWNVEND                                  Qual:
B Transaction ID:  0909    Multiple Env Id:

  Translation Map ID Inbound..:  __________     Outbound:  __________
  Application Databank Inbound:  F  (F/D/N)     Outbound:  F  (F/D/N)

  Outbound envelope information for Generic Transaction:
A   Envelope ID..:  THD                 Modifier......:  _
    Sender ID....:  ________________    Receiver ID...:  ________________  C
    Version ID...:  _____________       Reference.....:  00000000000000001
    Gen Element 1:  ____________________ Gen Element 2.:  ____________________
    Gen Element 3:  ____________________ Gen Element 4.:  ________________
    Gen Element 5:  ________________


  Enter PF1=Help            PF3=Exit PF4=TDir       PF5=Name       PF6=Nxt Tran
                          PF9=Add PF10=Updt PF11=Del            PF14=Info
```

The following table describes the mapping information.

Callout Indicator in Diagram Above	Mapping Information
A	Maps to position 78 – 80 (Segment ID) as defined on the User Envelope Specification screen in the standards.
B	Maps to position 1 – 4 (Transaction ID) on the Version/ Outbound Specification screen.
C	Maps to position 17 – 26 (Reference Number) on the Version/Outbound Specification screen.

12. Press **PF5=Name** on the Transaction Information screen to advance to the Name and Address screen.

    Name and address information is already added for the Lawnvend trading partner on the Name and Address screen.

```
EDIM035 1.2.5_____              NAME AND ADDRESS                XXX  06/01/2011
                                                                      12:00:00



Partner..:  LAWNVEND                                  Qual:


  Name...:  LAWN_VENDOR_FOR_DEMONSTRATION______
  Address:  123_STATE_STREET___________________
            _____________________________________
            _____________________________________
            _____________________________________
            _____________________________________
  City...:  ANYTOWN____________________________
  State..:  OH__
  Zip....:  00000 - 0000   Country Code:  00
  Contact:  CATALOG_MANAGER_________________
  Phone..: ( ___ )  ___ - ____ x ____
  International Dial Code:  000

Enter PF1=Help            PF3=Exit PF4=Trans      PF5=User Def
                       PF9=Add PF10=Updt PF11=Del           PF14=Info
```

13. Press **F3=Exit** three times.

    The system displays the Sterling Gentran Main Menu.

14. Type **5** to select Mapping Maintenance Menu and press **Enter**.

    The system displays the Mapping Maintenance Menu.

15. Type **1** to select Application Definition and press **Enter**.

    The system displays the Application Definition Menu.

16. Type **1** to select Application Directory and press **Enter**.

    The system displays the Application Directory.

17. Type **S** in the A (Action Code) field next to the Application ID POFILEF and press **PF5=Data ID**.

    The system displays the Application Data ID screen.

Mapping Configuration

For this exercise, we have supplied the POFILEF application definition.

You must complete the following screens to identify the information you want to map.

- Application Data ID screen – EDIM552
- Transaction Maintenance screen – EDIM503
- Transaction Maintenance – Sterling Gentran:Structure – EDIM516

Exercise

You navigated to the Application Data ID screen as you completed the previous section. The Application Data ID is already coded for you. The Mapping process on this screen operates like normal Sterling Gentran:Basic mapping.

```
EDIM552 5.1.2_____        APPLICATION DATA ID                 XXX  06/01/2011
                                                                      12:00:00


    Application Data ID.......:  POFILEF___   Send or Receive:  S
    Division Code.............:  000
    Description...............:  PURCHASE_ORDER_MASTER_FILE_FIX
    Functional Group..........:  PO____   OG____   0909__
                                 ______   ______
    Fixed or Variable Length..:  V   (F/V)
    Record Length.............:  00250
    Record Type Start Pos.....:  00021          Length.......:  03
    Inbound Pass-Thru.........:  _
    Underscore Character......:  _
    Update Allowed............:  Y

    Last Update User..........:  SCI            Date.........:  00/00/00
                                                Time.........:  00:00:00



Enter PF1=Help PF2=Copy   PF3=Exit PF4=Dir        PF5=Records    PF6=Refer
                       PF9=Add PF10=Updt PF11=Del PF12=NuMap PF13=Envel
```

Complete the following steps to identify the information to map.

1. Press **PF3=Exit** twice.

   The system displays the Mapping Maintenance Menu.

2. Type `2` to select Transaction Mapping and press **Enter**.

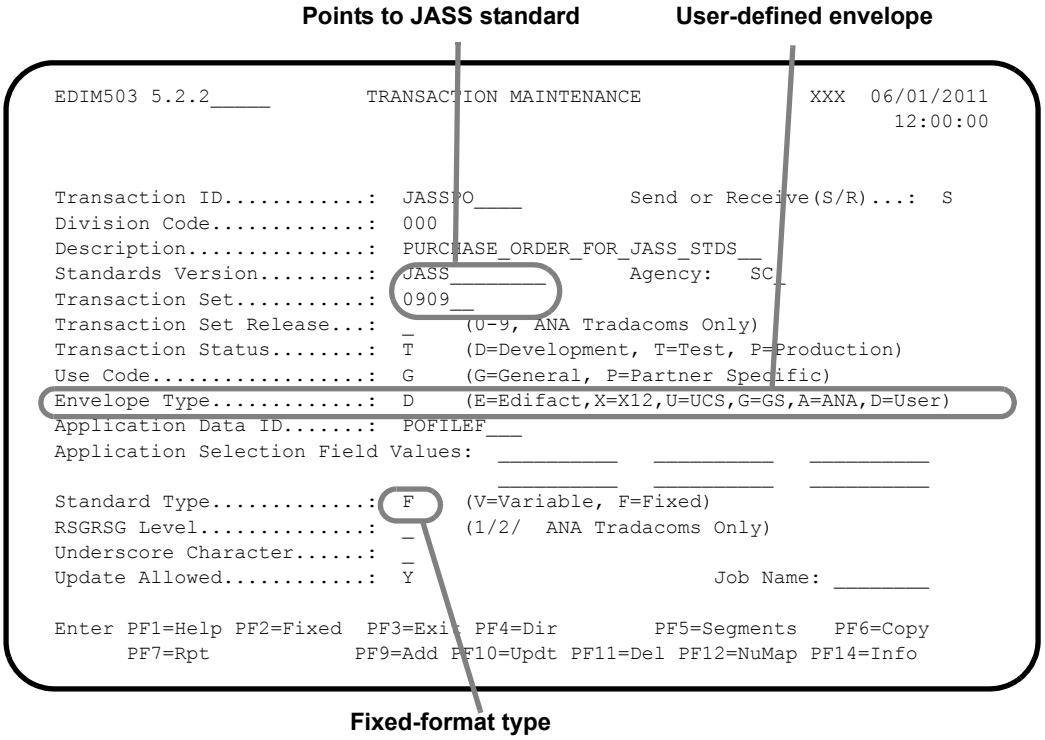
   The system displays the Transaction Mapping Menu.

3. Type `1` to select Transaction Directory and press **Enter**.

   The system displays the Transaction Directory.

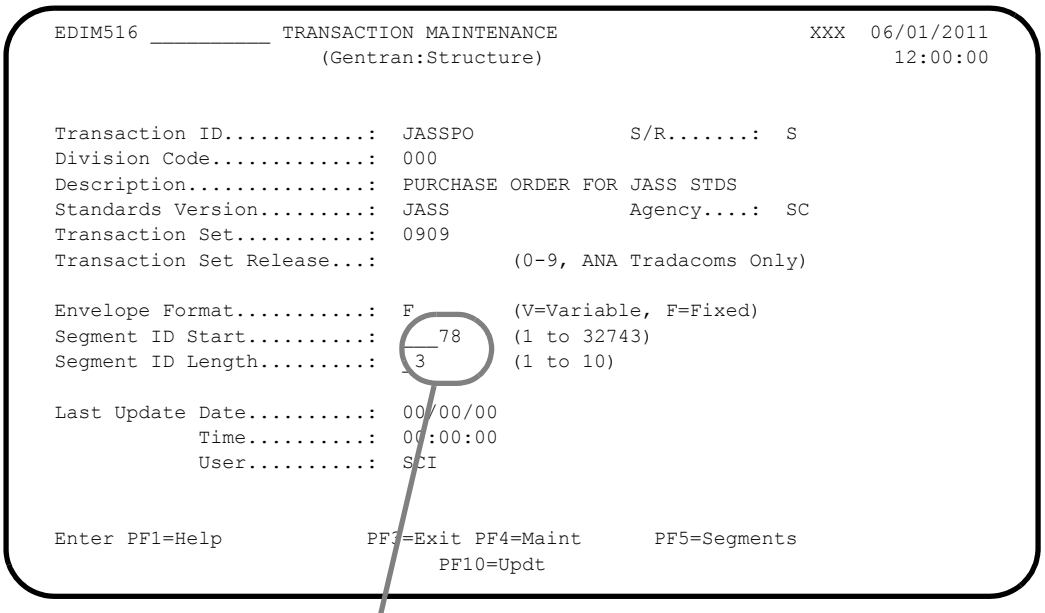
4. Type **s** in the A (Action Code) field next to the Transaction ID JASSPO and press **PF5=Trans**.

   The system displays the Transaction Maintenance screen.



5. Press **PF2=Fixed**.

   The system displays the Transaction Maintenance – (Sterling Gentran:Structure) screen for fixed format standards.



For this JASS standard model, we have not coded a specific segment ID element in the Standards file, but the Mapper will put the segment ID in position 78 for 3 bytes.

Sterling Gentran:Basic Users

The Batch jobs STRINB and STROUT, which we supply with the product, run the installation verification. The jobs use test data, the JASSPO and JASSIN maps, the POFILEF and INFILEF applications, and the JASS standard. You may run these jobs again to examine the results more closely.

Sterling Gentran:Realtime Users

The inbound and outbound processes from the installation verification can be reprocessed to allow you to examine the results more closely.

See Chapter 4, “Performing Verification for Sterling Gentran:Realtime Users,” in the *IBM® Sterling Gentran:Structure® for z/OS® Installation Guide*.

Implementing Sterling Gentran:Structure

This section explains how to proceed with the actual implementation of Sterling Gentran:Structure, including the resources you will need and the questions you must ask.

Figure 2.7 illustrates the implementation process that begins by installing the Sterling Gentran:Structure Install Tape. The other implementation steps may be executed in any order.

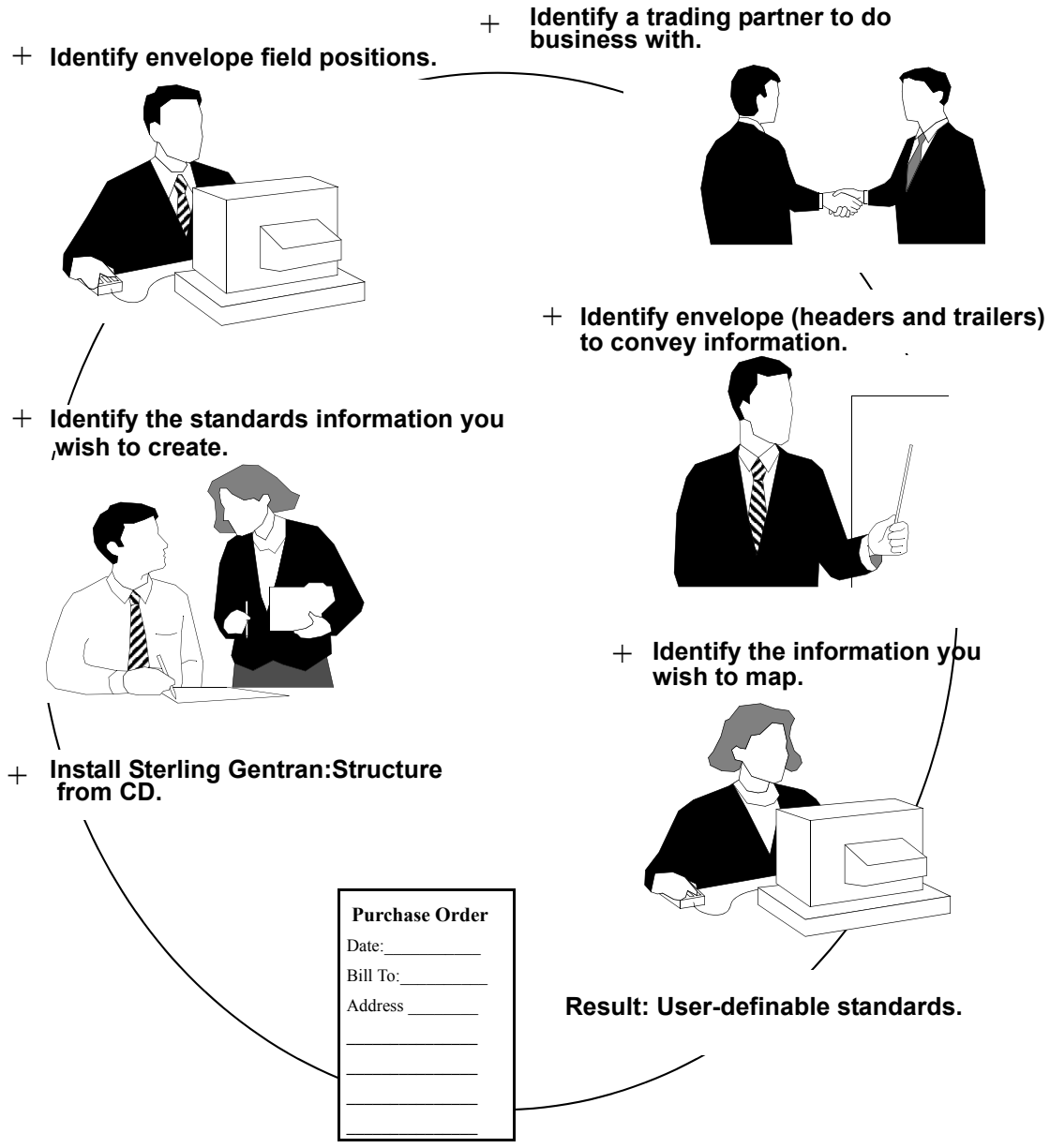


Figure 2.7 Implementation

Processing Daily Business

Inbound Flow

The first step of the inbound flow is the Inbound Fixed/Variable Splitter program (EBDI094). This program is optional and is only needed if you receive fixed-format and variable-format data in the same transmission. The next step is the Inbound Pre-Processor program (EBDI083), which reads the partner profile to create the map records and the user envelope files to define control records. Finally, the Inbound Mapper (EBDI042) processes the data.

Outbound Flow

The Outbound Mapper runs either fixed data or variable data.The Mapper reads the partner profile and envelope file to obtain information to build envelopes. An optional, user-written Format Specific Envelope Generator may be used to generate envelopes outside the mapping process. No editing or compliance checking is performed.

Maintenance Procedures

No additional daily maintenance procedures need to be executed as a result of Sterling Gentran:Structure installation.

The following activity needs to be executed on an as-needed basis, depending on particulars of your company's operations:

- Add the Backup of User Envelope file to your normal backup activity.
- If you are using databanking on Sterling Gentran:Structure, Databank Maintenance on the application databank is required.

Sterling Gentran:Structure Tutorial

Purpose

The Sterling Gentran:Structure Tutorial gives you practical experience working with the online components of the system.

The phases of work are:

1. Setting up the standards files.
2. Building an application definition and a transaction definition for mapping.
3. Creating a trading partner.

In this Tutorial, you will complete the sample scenario we have developed for this product. The following table outlines the stages of the process.

Stage	Description
1	Work with the JASS standard to create a new segment for outbound purchase orders. This segment is the Order Notes (ONT) segment. You will add this segment and its associated data elements.
2	Add packet and transaction trailer envelopes for the JASS standard.
3	Modify the transaction map JASSPO to map note information to the EDI output file.
4	Modify the transaction map JASSIN to capture packet and transaction control numbers.
5	Modify the trading partner LAWNVEND to add transaction and segment counts to pass to the new defined trailer envelopes.

At the completion of the tutorial, you will run the jobs **STRINB** and **STROUT** again.

Standards Maintenance

Overview

In this section of the Tutorial, you will:

- Add the ONT segment to the JASS standard.
- Add trailer envelopes used in this standard.

To accomplish the tasks listed above, you will complete the following process:

Stage	Description
1	Increase number of segments to 5 on the Transaction screen.
2	Add ONT segment on Segments screen.
3	Add Note Type (element 30) on the Elements screen, and then add codes for this element on the Data Element Code Values screen.
4	Add Note Text (element 31) on the Elements screen.
5	Update PHD to point to its associated trailer PTR on the User Envelope Specification screen.
6	Update THD to point to its associated trailer TTR on the User Envelope Specification screen.
7	Add envelope PTR and point to its associated header PHD on the User Envelope Specification screen.
8	Add envelope TTR and point to its associated header THD on the User Envelope Specification screen.
9	Fill in detail for PTR envelope on the Version/Outbound Specification screen.
10	Fill in detail for TTR envelope on the Version/Outbound Specification screen.

Exercise

Complete the following steps to complete the Standards Maintenance portion of the Tutorial.

1. On the Sterling Gentran Main Menu, type **2** to select the Standards Maintenance Menu.

   The system displays the Standards Maintenance Menu.

2. Type **2** to select Version and press **Enter.**

   The system displays the Version screen.

3. Type **JASS** in the Version Id field and press **Enter**.

The system displays the Version screen with JASS standard data.

```
EDIM110 2.2_______                VERSION                  XXX     06/01/2011
                                                                     12:00:00



   Version Id.......:  JASS________

   Agency...........:  SC_

   Description......:  LAWN_CARE_PROPRIETARY_STANDARD_____________________________

   Envelope Type....:  D  (A=ANA, E=Edifact, T=TDCC, X=X12, D=User Defined)

   Update Allowed...:  Y  (Y/N)


                                                  Last Update Date: 06/01/11
                                                              Time: 12:00:00
                                                              User: XXX

Enter PF1=Help PF2=Tdir   PF3=Exit PF4=Vdir       PF5=Trans      PF6=Nxt Vers
                       PF9=Add PF10=Updt
```

4. Press **PF5=Trans** to advance to the Transaction screen.

We are adding the ONT – Purchase Order Notes segment to the 0909 Purchase Order document.

5. To increase the number of segments from four to five, type **5** in the No of Segments field and press **PF10=Updt**.

```
EDIM120 2.5_______            TRANSACTION                  XXX     06/01/2011
                                                                     12:00:00


  Transaction Code.....:  0909__
  Version Id...........:  JASS________   Agency.:  SC_
  Description..........:  PURCHASE_ORDER_____________________________________
  Functional Id........:  0909__
  LS/LE Bounding Ind...:  _  (Y/N/ )
  NTE Float Ind........:  _  (Y/N/ )
  Number of Segments...:  0005          Repeat Ind:  N (Y/N)




                                                  Job Name: ________

                                                  Last Update Date: 06/01/11
                                                              Time: 12:00:00
                                                              User: XXX
TRANSACTION RECORD UPDATED
Enter PF1=Help PF2=Vers   PF3=Exit PF4=Tdir       PF5=Segment    PF6=Nxt Tran
      PF7=Rpt           PF9=Add PF10=Updt PF11=Del             PF14=VTdir
```

6. Press **PF5=Segment**.

The system displays the Segments screen.

7. Enter the ONT information from the following table. (Type the information in the first available line by typing over the OHD information; the system will place the segment in numerical order.)

Seg Num	Seg ID	Seg Version	Type	Req	Man Code	Min Use	Max Use	Min Loop	Max Loop	DE Count	Seg GRP	Loop ID	Loop B/E	Act CNT	Desc.
0030	ONT	00	H		O	1	25			2					Purchase Order Notes

8. Type **A** in the A (Action Code) field for your ONT line and press **Enter**.

   The system displays the Segments screen with your new segment in correct numerical order.

   Note: After you press **Enter** to add the ONT information, you may need to press **PF7=Bwd** to display the list from the beginning, as illustrated below.

```
Add Delete Update Select
EDIM130 2.6_______          SEGMENTS                        XXX      06/01/2011
                                                                       12:00:00


    Version Id.....: JASS________    Agency..:  SC_
    Transaction ID..: 0909__

   ******Segment******    Man ***Use***  **Loop***  DE    Seg  Loop   LP  Act
A   No    Id   Ver Ty Req Cde Min   Max  Min   Max  Count Grp   Id    B/E Cnt
_  0010   OHD_  00  H   _    M   1 _____1   _ ______   ___8  __  ______  _  ___
          PURCHASE_ORDER_HEADER_____________________________________________
_  0020   OAD_  00  H   _    O   _ _____3   _ ______   ___6  __  ______  _  ___
          ADDRESS_INFORMATION_______________________________________________
_  0030   ONT_  00  H   _    O   1 ____25   _ ______   ___2  __  ______  _  ___
          PURCHASE_ORDER_NOTES______________________________________________
_  0040   ODT_  00  D   _    M   1 _____1   1 __9999   ___9  __  ODT___   B  ___
          PURCHASE_ORDER__DETAIL____________________________________________
_  0050   OSM_  00  S   _    M   1 _____1   _ ______   ___3  __  ______  _  ___
          PURCHASE_ORDER_SUMMARY____________________________________________

BEGINNING OF SEGMENTS
Enter PF1=Help           PF3=Exit PF4=Trans      PF5=Elements   PF6=Nxt Tran
      PF7=Bwd  PF8=Fwd
```

9. Type **S** in the A (Action Code) field corresponding to the ONT segment and press **PF5=Elements**.

   The system displays the Segment Element screen.

10. On the Segment Element screen, enter the ONT information from the following table.

Seg	Seg Num	Ele/ Seq	Sub Ele	Man Ele	Com Ele	Aud Ind	Ele ID	Ele Ver	Repeat	Group DSG	Ty
ONT	0001	001	000	M	M		30	00	1		
	0002	002	000	M	M		31	00	1		

11. To add the information you have entered, type **A** in the A (Action Code) field for both lines and press **Enter**.

    The system displays the Segment Element screen with the ONT element information and a Status value showing **ADD: 2**.

```
Add Update Delete Select Info
EDIM140 2.7_______            SEGMENT ELEMENT              XXX     06/01/2011
                                                                     12:00:00


   Version Id...:  JASS________    Agency..:  SC_
   Segment Id...:  ONT_   Segment Version..:  00

   Seq   Ele  Sub Man Com Ad  Element       **Group**
A  Num   Seq  Ele Ele Ele In  Id   Ver  R    Dsg  Ty  Description          Cd
_  0001  001  000  M   M    _  30    00 0001  _____ _  NOT AVAILABLE
_  0002  002  000  M   M    _  31    00 0001  _____ _  NOT AVAILABLE
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _
_  ____  ___  ___  _   _    _  _____ __ ____  _____ _

END OF SEGMENT ELEMENTS                          STATUS  ADD: 2 DEL: 0 UPD: 0
Enter PF1=Help PF2=Actvty PF3=Exit PF4=Segment    PF5=Elem Def   PF6=Nxt Segm
      PF7=Bwd  PF8=Fwd
```

12. Type **S** in the A (Action Code) field corresponding to the 0030 element and press **PF5=Elem Def**.

    The system displays the Data Element Definition screen.

13. Enter the information from the following table to add the 30 element.

Element ID	Element Description	Element Type	Minimum Length	Maximum Length	Composite Code Definition
30	Note Type	ID	002	0002	

14. Press **PF9=Add** to add the element information you have entered.

The system displays the completed Data Element Definition screen.

```
EDIM160 2.9_______       DATA ELEMENT DEFINITION          XXX     06/01/2011
                                                                    12:00:00

   Version Id....: JASS________   Agency.........:  SC_

   Element Id....: 30___          Element Version:  00

   Description:
      NOTE_TYPE_____________________________________________________________

   Element Type..: ID  (AN/ID/R/Nn/DT/D8/TM/T6/T8/CD/B  - ALL STANDARDS)
                       (DD/MM/JD/YY/PD/PJ/PM/PY/Pn/Sn - USER DEFINED )
                       (CM/J8/CY/ZD/ZJ/ZM/ZY          - USER DEFINED )
   Minimum Length: 002

   Maximum Length: 00002

   Composite Code Definition: _____________________ Last Update Date: 06/01/11
                                                              Time: 12:00:00
                                                              User: XXX
ELEMENT ID  INSERTED
Enter PF1=Help            PF3=Exit PF4=Seg Elem   PF5=Code Dir   PF6=Nxt Elem
                        PF9=Add PF10=Updt PF11=Del
```

15. Press **PF5=Code Dir**.

    The system displays the Standard Code Directory screen for this element.

16. Press **PF3=Exit**.

    The system displays the Standard Code Menu.

17. Type **2** to select Standard Code Maintenance and press **Enter**.

    The system displays the Standard Code Maintenance screen.

    Adding element information to this screen is optional, but it is helpful.

18. For this Tutorial, type the following information in the Code/Description fields:

    Note: Type the code number on the top line and the description on the second line.

    - 01 – ORDER INSTRUCTIONS
    - 02 – HANDLING
    - 03 – PACKAGING
    - 04 – SHIPPING INSTRUCTIONS
    - 05 – GENERAL

19. Type **A** in the A (Action Code) field and press **Enter** to add the information you have entered.

    The system displays the Standard Code Maintenance screen with the new element information.

20. Press **PF4=Code Dir**.

The system displays the Standard Code Directory screen.

```
Select Info
EDIM171 2.10.1____          STANDARD CODE DIRECTORY        XXX     06/01/2011
                                                                      12:00:00


    Version Id:  JASS________   Agency:  SC_  Language.:  EN_
    Element Id:  30___ Element Version:  00   Min/Max..:  002 /  00002

A  Comp Code/Description

_   _  01____ORDER_INSTRUCTIONS_____________________________________________
_   _  02____HANDLING_______________________________________________________
_   _  03____PACKAGING______________________________________________________
_   _  04____SHIPPING_INSTRUCTIONS__________________________________________
_   _  05____GENERAL________________________________________________________
_   _  _____________________________________________________________________
_   _  _____________________________________________________________________
_   _  _____________________________________________________________________
_   _  _____________________________________________________________________
_   _  _____________________________________________________________________

END OF CODE LIST
Enter PF1=Help            PF3=Exit PF4=Elem Defin PF5=Code Maint PF6=Nxt Code
      PF7=Bwd  PF8=Fwd
```

21. Press **PF4=Elem Defin**.

    The system displays the Data Element Definition screen.

22. Enter the following Note Text information (type over the existing information).

Element Id	Description	Element Type	Minimum Length	Maximum Length	Composite Code Definition
31	Note Text	AN	075	00075	Spaces

23. Press **PF9=Add** to add the information you entered.

The system displays the completed Data Element Definition screen.

```
EDIM160 2.9_______       DATA ELEMENT DEFINITION          XXX     06/01/2011
                                                                    12:00:00

   Version Id....: JASS________   Agency.........:  SC_

   Element Id....: 31___          Element Version:  00

   Description:
      NOTE_TEXT_____________________________________________________________

   Element Type..: AN  (AN/ID/R/Nn/DT/D8/TM/T6/T8/CD/B  - ALL STANDARDS)
                       (DD/MM/JD/YY/PD/PJ/PM/PY/Pn/Sn - USER DEFINED )
                       (CM/J8/CY/ZD/ZJ/ZM/ZY          - USER DEFINED )
   Minimum Length: 075

   Maximum Length: 00075

   Composite Code Definition: _____________________ Last Update Date: 06/01/11
                                                                Time: 12:00:00
                                                                User: XXX
ELEMENT ID  INSERTED
Enter PF1=Help            PF3=Exit PF4=Seg Elem   PF5=Code Dir   PF6=Nxt Elem
                        PF9=Add PF10=Updt PF11=Del
```

24. Press **PF3=Exit**.

    The system displays the Standards Maintenance Menu.

25. Type **12** to select User Envelope Specification.

    The system displays the User Envelope Specification screen.

First, you must update the PHD and THD to point to their associated trailers, PTR and TTR:

26. For PHD, type **U** in the A (Action Code) field, and **PTR** in the Associated Hdr/Trl field.

27. For THD, type **TTR** in the Associated Hdr/Trl field, and **U** in the A (Action Code) field.

28. Press **Enter** to add both trailers.

    The system displays the screen with the trailers added.

29. To add the associated trailers, type the following trailer information over the existing information (the system lists the new entries in the correct order).

Element Description	Segment	Seg Start	Length	Env Lvl	Dir	Part Start	Part Lgth	Assoc HD/TR
Packet Trailer	PTR	78	3	EI	B			PHD
Transaction Trailer	TTR	78	3	ET	B			THD

30. Type **A** in the A (Action Code) field for the two lines you have entered and press **Enter**.

The system displays the screen with the addition of the associated trailers in the list.

```
Add Delete Update Version/outbound-specification
EDIM190 2.12______      USER ENVELOPE SPECIFICATION          XXX    06/01/2011
                                                                      12:00:00


Starting Segment ID..: __________


A ---Segment-- -Seg  ID- -Env-  -Usr ID-  -Prt ID- -Associated- Ver  Last Updt
     ID    Mod  Start Ln Lvl D  Start Ln  Start Ln Hdr/Trl  Mod Spc  Date User
_ PHD_______ _  ___78 _3  BI B  _____ __  ____1 15 PTR_______ _  Y  072301 XXX
_ PTR_______ _  ___78 _3  EI B  _____ __  _____ __ PHD_______ _  N  072301 XXX
_ THD_______ _  ___78 _3  BT B  _____ __  _____ __ TTR_______ _  Y  072301 XXX
_ TTR_______ _  ___78 _3  ET B  _____ __  _____ __ THD_______ _  N  072301 XXX
_ 20________ _  ____1 _3  BI B  _____ __  ____8 _9 99________ _  Y  041796 XXX
_ 20G_______ _  ____1 _3  BG B  _____ __  _____ __ 99G_______ _  N  041796 XXX
_ 20T_______ _  ____1 _3  BT B  _____ __  _____ __ 99T_______ _  N  041796 XXX
_ 99________ _  ____1 _3  EI B  _____ __  _____ __ 20________ _  N  041796 XXX
_ 99G_______ _  ____1 _3  EG B  _____ __  _____ __ 20G_______ _  N  041796 XXX
_ 99T_______ _  ____1 _3  ET B  _____ __  _____ __ 20T_______ _  N  041796 XXX

                                                  STATUS..ADD: 2 DEL: 0 UPD: 0
Enter PF1=Help            PF3=Exit
      PF7=Bwd  PF8=Fwd
```

31. Type **v** in the A (Action Code) field for the PTR segment and press **Enter**.

    The system displays the Version/Outbound Specification screen.

32. Add the following PTR information to the screen.

Segment ID	Screen Field	ST Pos	Length	Envelope Element
PTR	Gen Element 2	1	8	Number of Segment in Packet
	Gen Element 3	9	8	Number of Trans in Packet
	Reference Number	17	9	Packet Control Number

33. Press **PF10=Updt**.

    The system displays the message: **USER ENVELOPE RECORD UPDATED**

The system displays the completed Version/Outbound Specification screen.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION           XXX  06/01/2011
                                                                      12:00:00


Segment ID...........:  PTR            Modifier:                Length:  ___80
Default Version ID...:  _____________  Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: _____       __      Transaction ID.....: _____      __
Sender ID..........: _____       __      Receiver ID........: _____      __
Reference Number...: ___17       _9      Generic Element 1..: _____      __
Generic Element 2..: ____1       _8      Generic Element 3..: ____9      _8
Generic Element 4..: _____       __      Generic Element 5..: _____      __
Generic Element 6..: _____       __      Generic Element 7..: _____      __
Generic Element 8..: _____       __      Generic Element 9..: _____      __
Generic Element 10.: _____       __      Current Date.......: _____      __
Current Time.......: _____       __      Current Date Format: __
                          Last Update Date: 06/01/11 Time: 12:00:00 User: XXX
USER ENVELOPE RECORD UPDATED
Enter PF1=Help           PF3=Exit PF4=User                    PF6=Nxt Env
                                PF10=Updt
```

34. Press **PF6=Nxt Env** twice.

    The system displays the screen for the TTR segment.

35. Add the following TTR information to the Version/Outbound Specification screen.

Segment ID	Screen Field	ST Pos	Length	Envelope Element
TTR	Gen Element 1	1	8	Number of Segment in Tran
	Reference Number	9	9	Trans Control Number

36. Press **PF10=Updt**.

    The system displays the updated screen for the TTR segment with the message:
    USER ENVELOPE RECORD UPDATED

The system displays the completed Version/Outbound Specification screen.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION            XXX  06/01/2011
                                                                      12:00:00


Segment ID...........:  TTR            Modifier:                Length:  ___80
Default Version ID...:  _____________  Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: _____       __      Transaction ID.....: _____      __
Sender ID..........: _____       __      Receiver ID........: _____      __
Reference Number...: ____9       _9      Generic Element 1..: ____1      _8
Generic Element 2..: _____       __      Generic Element 3..: _____      __
Generic Element 4..: _____       __      Generic Element 5..: _____      __
Generic Element 6..: _____       __      Generic Element 7..: _____      __
Generic Element 8..: _____       __      Generic Element 9..: _____      __
Generic Element 10.: _____       __      Current Date.......: _____      __
Current Time.......: _____       __      Current Date Format: __
                          Last Update Date: 06/01/11 Time: 12:00:00 User: XXX
USER ENVELOPE RECORD UPDATED
Enter PF1=Help           PF3=Exit PF4=User                    PF6=Nxt Env
                               PF10=Updt
```

The Standards section of this Tutorial is now complete.

37. Press **PF3=Exit** twice to return to the Sterling Gentran Main Menu.

Mapping Integration – Outbound

Overview

In this section of the Tutorial, you will:

- Copy the ONT segment from the JASS standards and add it to the transaction map JASSPO/S.
- Map the Note Text data from the POFILEF application data to the JASSPO map.

To accomplish the tasks listed above, you will complete the following process

Stage	Description
1	Select ONT segment on the Element Mapping Outbound screen.
2	Hard code constant 01 for the Note Type element (order instructions), with If test on the 002-MESSAGE element.
3	Move 002-MESSAGE to the Note Text.

Exercise

Complete the following steps to complete the outbound mapping integration procedure.

1. Type `5` on the Sterling Gentran Main Menu to select the Mapping Maintenance Menu.

   The system displays the Mapping Maintenance Menu.

2. Type `2` to select Transaction Mapping.

   The system displays the Transaction Mapping Menu.

3. Type `2` to select Transaction Maintenance.

   The system displays the Transaction Maintenance screen.

4. Type `JASSPO` in the Transaction Id field, type `S` in the Send or Receive field and press **Enter**.

   The system displays the transaction information for JASSPO.

5. Press **PF6=Copy**.

   The system displays the Copy Transaction screen.

6. Type `JASS` in the Copy from Standard Version Id field and `SC` in the Agency field.

The system displays the Copy Transaction screen.

```
EDIM501 5.2.3_____            COPY TRANSACTION              XXX    06/01/2011
                                                                      12:00:00


   Transaction Id..............: JASSPO____
   Send or Receive (S/R).......: S
   Transaction Description.....: PURCHASE ORDER FOR JASS STDS
   Application Data Format Id..: POFILEF
   Transaction Set.............: 0909


   Copy from Standard
      Version Id..............: JASS______         Agency....:  SC_

   Copy from Transaction Mapping
      Transaction Id..........: __________




Enter PF1=Help            PF3=Exit PF4=Trans
```

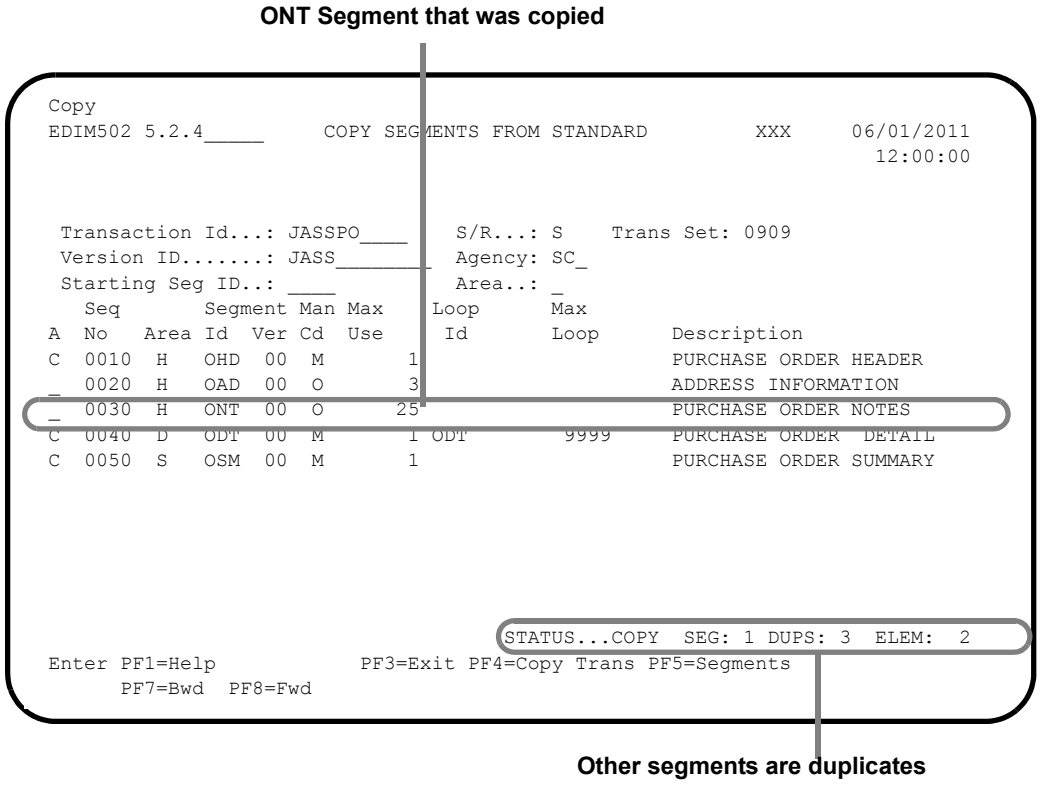
7. Press **Enter**.

   The system displays the Copy Segments From Standard screen. On this screen, you will copy the ONT segment.

   Note: The system displays additional Cs in the A (Action Code) fields because the corresponding segments are mandatory. However, the system copies only the segment you indicate (ONT); it treats the other segments as duplicates that will not be copied.

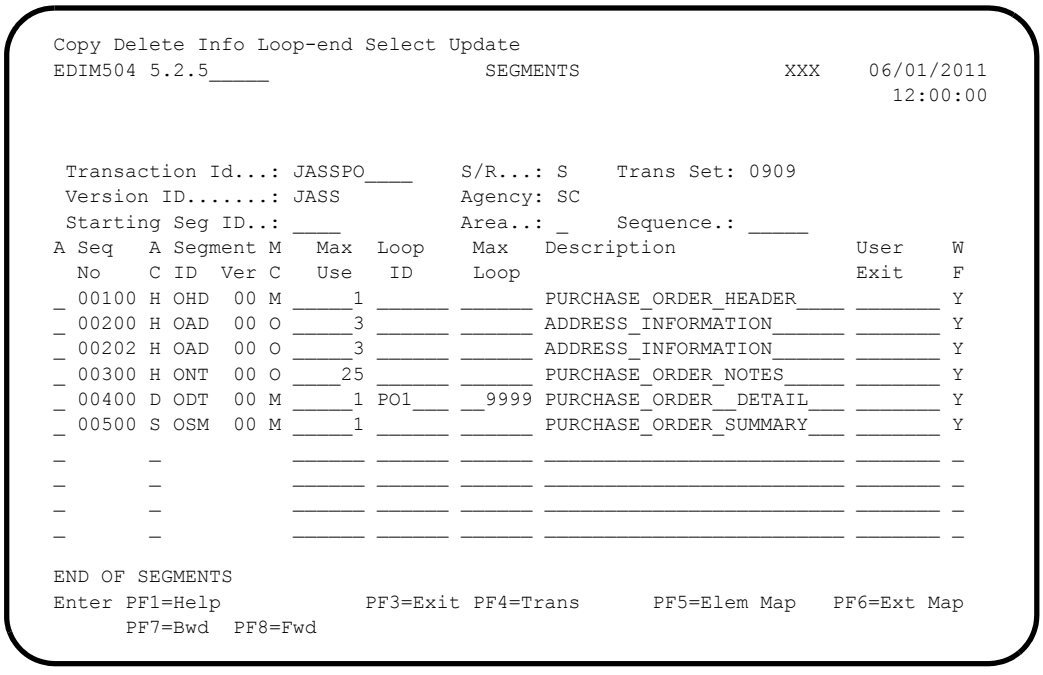
8. Type `c` in the A (Action Code) field corresponding to the ONT segment and press **Enter**.

The system displays the completed Copy Segments From Standard screen.



9. Press **PF5=Segments**.

The system displays the Segments screen.



10. Type **S** in the A (Action Code) field corresponding to the ONT segment and press **PF5=Elem Map**.

    The system displays the Element Mapping Outbound screen.

11. Type the following:
    - **U** in the first A (Action Code) field
    - **'01'** (which means to code for purchase order notes that we defined in standards) in the Mapping Constant/Field for the 30 element
    - **U** in the A (Action Code) field and **002-MESSAGE** in the Mapping Constant/Field for the 31 element

12. Press **Enter**.

    The system updates the fields and displays the message: **STATUS: UPDATED: 2**

    The system displays the completed Element Mapping Outbound screen.

```
Extended-mapping Info Update Subfield Repeat
EDIM511 __________          ELEMENT MAPPING OUTBOUND         XXX    06/01/2011
                                                                      12:00:00


Transaction ID.......: JASSPO____  Send or Receive..: S
Segment Sequence.....: 00300       Segment ID.......: ONT  Ver: 00
Segment Description..: PURCHASE ORDER NOTES

A     Mapping       Table   Ext Alt-Element-  Repeat Md T                   C
  Constant/Field      ID    Map Map No   ID      No. Cd P Desc               R
_ '01'____________ __________       00010 30    0001  M ID NOTE_TYPE________
_ 002-MESSAGE____ __________       00020 31    0001  M AN NOTE_TEXT________
_ _______________ __________                          _    ________________
_ _______________ __________                          _    ________________
_ _______________ __________                          _    ________________
_ _______________ __________                          _    ________________
_ _______________ __________                          _    ________________
_ _______________ __________                          _    ________________
_ _______________ __________                          _    ________________
_ _______________ __________                          _    ________________
END OF ELEMENTS                                          STATUS.. UPDATED: 2
Enter PF1=Help PF2=Appl   PF3=Exit PF4=Segments   PF5=Codes      PF6=Next Seg
      PF7=Bwd  PF8=Fwd                                          PF13=Relat
```

We need to ensure that the ONT segment will only write when there is a note to send. We use the Extended Mapping Outbound screen to accomplish this task.

13. Type **E** in the A (Action Code) field next to 01 and press **Enter**.

    The system displays the Extended Element Mapping Outbound screen.

14. Type the following values:
    - **002-MESSAGE** in the If field
    - **NE** in the first Op field
    - A space surrounded by apostrophes (**' '**) in the first Value field

15. Press **PF10=Updt**.

    The system updates the fields and displays the message
    TRANSACTION ELEMENT UPDATED

```
EDIM508 __________      EXTENDED ELEMENT MAPPING OUTBOUND    XXX    06/01/2011
                                                                      12:00:00
Transaction ID.........: JASSPO     S/R.........: S
Segment Sequence......: 00300      Segment ID.: ONT  Segment Version: 00
Segment Description...: PURCHASE ORDER NOTES
Element # / Repeat #..: ___10 /  0001 ID...: 30    Ver: 00 NOTE TYPE
Mandatory Cd..........: M     Type.: ID    Length (Min-Max):  2  -    2
Element Group.........:       Type.:       Group Req Cd....: M  Related...: N
Mapping of Data Element:  Mapping Number......: 00
            Value             Op   Value             Op   Value
   Element = '01'                                          _______________
   If       002-MESSAGE____    NE   '_'_____________
    And/Or _ _______________   __   _______________
    And/Or _ _______________   __   _______________
    And/Or _ _______________   __   _______________
   Table ID..........: __________  Type of Table.........:
   Add to Hash Total #: __ Save in Constant #: __ Add 1 to Accumulator #: __
   User Exit Routine..: _______    Map Zeroes: _
   User Error Number..: _____
   Last Update Date...: 06/01/11   Time......:  12:00:00   User......:  XXX
TRANSACTION ELEMENT UPDATED
Enter PF1=Help PF2=Appl   PF3=Exit PF4=Return     PF5=Codes      PF6=Next
                        PF9=Add PF10=Updt PF11=Del            PF13=Relat
```

Indicates to only write the constant '01' if data is in the application field 002-MESSAGE

If no data or notes exist in the 002-MESSAGE, the ONT segment will not be written.

Outbound mapping is complete.

16. Press **PF3=Exit**.

    The system displays the Transaction Mapping Menu.

Mapping Integration – Inbound

Overview

In this section of the Tutorial you will map packet and transaction control numbers for the envelopes to the INFILEF application definition.

To accomplish this task, you will complete the following process.

Stage	Description
1	Position to map JASSIN/R on the Segments screen.
2	Select IHD on the Element Mapping Inbound screen.
3	Using Reserve Element 24 as the source field, go to the Extended Mapping Inbound screen and perform the moves with multiple mapping numbers for the following: • Mapping 00 – move 'GEN-INT-REF' to '0-INT-CONTROL.' • Mapping 01 – move 'GEN-TRN-REF' to '0-TRN-CONTROL.'

When we set up our inbound application definition INVFILEF, we hard-coded reserved word constants to pick up control numbers from variable-length envelopes. We can keep the application structure intact and map the control numbers from a fixed-format envelope by mapping directly from the standards.

We can use elements that are not being mapped to facilitate this activity.

Exercise

Complete the following steps to complete the inbound mapping integration procedure.

1. Type **2** on the Transaction Mapping Menu to select Transaction Maintenance.

   The system displays the Transaction Maintenance screen.

2. Type (over existing values) **JASSIN** in the Transaction Id field, type **R** in the Send or Receive field and press **Enter**.

The system displays the transaction information for JASSIN.

```
EDIM503 5.2.2_____        TRANSACTION MAINTENANCE              XXX  06/01/2011
                                                                       12:00:00


Transaction ID.............:  JASSIN____         Send or Receive(S/R)...:  R
Division Code..............:  000
Description................:  INVOICE_FOR_JASS_STANDARDS____
Standards Version..........:  JASS________       Agency:   SC_
Transaction Set............:  0926__
Transaction Set Release....:  _     (0-9, ANA Tradacoms Only)
Transaction Status.........:  T     (D=Development, T=Test, P=Production)
Use Code...................:  G     (G=General, P=Partner Specific)
Envelope Type..............:  D     (E=Edifact,X=X12,U=UCS,G=GS,A=ANA,D=User)
Application Data ID........:  INVFILEF__
Application Selection Field Values:  __________   __________   __________
                                     __________   __________   __________
Standard Type..............:  F     (V=Variable, F=Fixed)
RSGRSG Level...............:  _     (1/2/  ANA Tradacoms Only)
Underscore Character.......:  _
Update Allowed.............:  Y                      Job Name: __________

Enter PF1=Help PF2=Fixed  PF3=Exit PF4=Dir        PF5=Segments   PF6=Copy
      PF7-Rpt           PF9=Add PF10=Updt PF11=Del PF12=NuMap PF14=Info
```

3. Press **PF5=Segments**.

The system displays the Segments screen.

```
Copy Delete Info Loop-end Select Update
EDIM504 5.2.5_____                SEGMENTS                  XXX    06/01/2011
                                                                       12:00:00


 Transaction Id...: JASSIN____    S/R...: R    Trans Set: 0926
 Version ID.......: JASS          Agency: SC
 Starting Seg ID..: ____          Area..: _    Sequence.: _____
A Seq   A Segment M   Max  Loop    Max   Description                User    W
  No    C ID  Ver C   Use   ID     Loop                            Exit    F
_ 01000 H IHD  00 M _____1 ______ ______ INVOICE_HEADER___________ _______ _
_ 02000 H IRN  00 M _____1 ______ ______ REMIT_NAME_INFORMATION___ _______ _
_ 03000 D IDT  00 M _____1 IT1___ __9999 INVOICE_DETAIL___________ _______ _
_ 04000 S ISM  00 M _____1 ______ ______ INVOICE_DETAIL___________ _______ _
_       _          ______ ______ ______ ______________________________ _______ _
_       _          ______ ______ ______ ______________________________ _______ _
_       _          ______ ______ ______ ______________________________ _______ _
_       _          ______ ______ ______ ______________________________ _______ _
_       _          ______ ______ ______ ______________________________ _______ _
_       _          ______ ______ ______ ______________________________ _______ _

END OF SEGMENTS
Enter PF1=Help            PF3=Exit PF4=Trans      PF5=Elem Map   PF6=Ext Map
      PF7=Bwd  PF8=Fwd
```

4. Type **s** in the A (Action Code) field next to the IHD segment and press **PF5=Elem Map**.

The system displays the Element Mapping Inbound screen.

```
Extended-mapping Info Update Subfield Repeat
EDIM514 __________          ELEMENT MAPPING INBOUND          XXX    06/01/2011
                                                                      12:00:00


Transaction ID.......: JASSIN____  Send or Receive..: R
Segment Sequence.....: 01000       Segment ID.......: IHD Ver: 00
Segment Description..: INVOICE HEADER
                                          Field        Op Field/Constant
Mapping No...........: 00       Cond....: ________________ __ ________________
A     Mapping       Table   Ext Alt-Element- Repeat Md T                    C
    Target Field      ID    Map Map  No ID      No. Cd P Description         R
_ 1-INVOICE-NO___ __________        00020 3     0001  M AN INVOICE_NUMBER___
_ 0-ORIGINAL-PO__ __________ Y   Y 00040 4     0001  M AN PURCHASE_ORDER_NU
_ ________________ __________       00060 2     0001  M ID DATE_TYPE________
_ 1-INV-DATE_____ __________ C   Y 00080 1     0001  M JD DATE_____________
_ ________________ __________       00100 2     0001  M ID DATE_TYPE________
_ 1-INV-DATE_____ __________ C   Y 00120 1     0001  M JD DATE_____________
_ ________________ __________       00140 13    0001  M ID BILLING_CYCLE_COD
_ ________________ __________       00160 25    0001  O AN RESERVE_ELEMENT_4
_ ________________ __________                           _   ________________
END OF ELEMENTS
Enter PF1=Help PF2=Appl   PF3=Exit PF4=Segments   PF5=Codes      PF6=Map/Seg
      PF7=Bwd  PF8=Fwd                                          PF13=Relat
```

5. Type **E** in the A (Action Code) field corresponding with the 160 element (Reserve Element 49) and press **Enter**.

   The system displays the Extended Element Mapping Inbound screen.

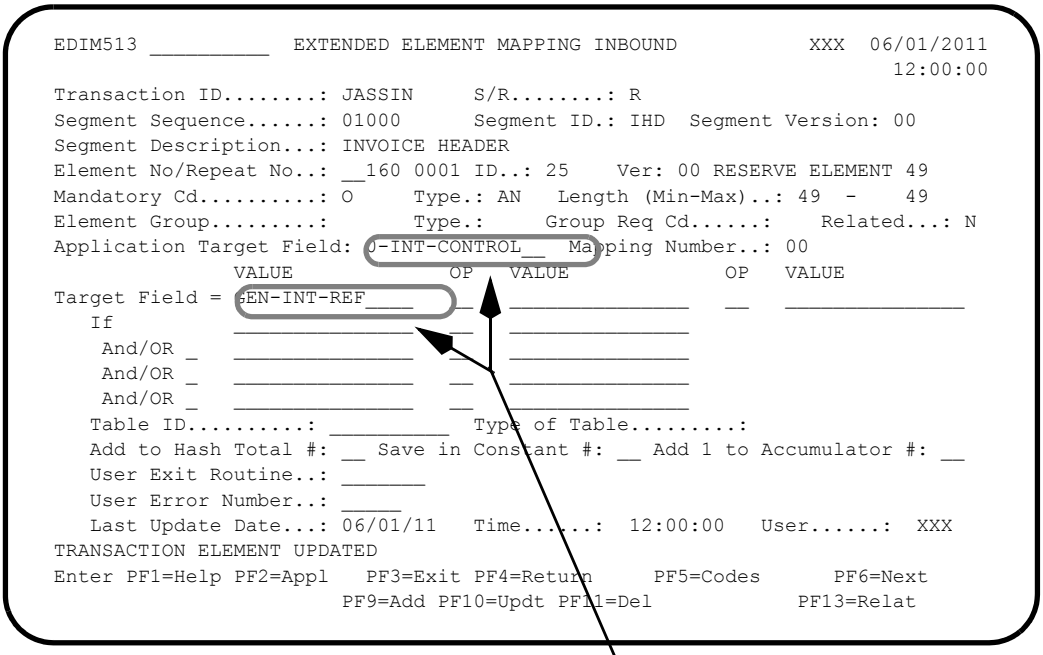
Since no mapping is performed on the Reserve Element 49, we will use this element to move control numbers from the PHD and THD envelopes to the application.

6. Type **0-INT-CONTROL** in the Application Target field and **GEN-INT-REF** in the Target Field, then press **PF10=Updt** to update the fields.

   The system displays the message:
   TRANSACTION ELEMENT UPDATED

   The system moves the value in the **GEN-INT-REF** (reserved word for Interchange Control number values) into the **0-INT-CONTROL** field in the application.

Your screen should look like this..



If you want to change the application to hard code these values, you may. For the purpose of this Tutorial, we are mapping from the standards so as not to alter the application.

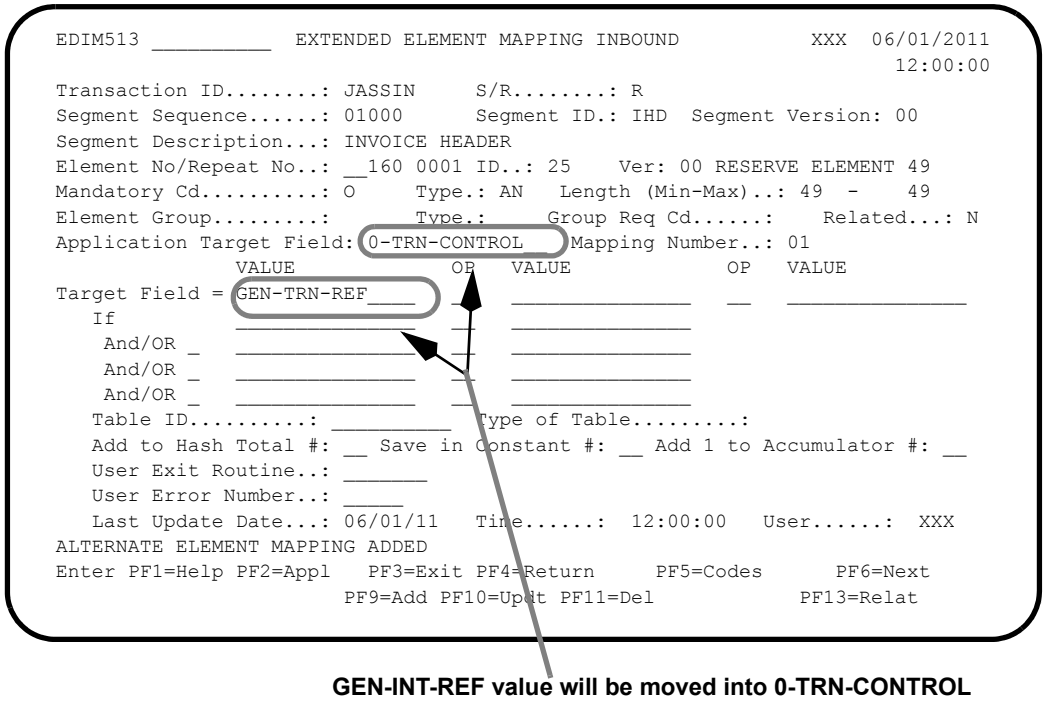
7. Type the following values:

   - **01**, over the 00 in the Mapping Number field.
   - **0-TRN-CONTROL**, in the Application Target field.
   - **GEN-TRN-REF**, in the Target Field.

8. Press **PF9=Add** to add the fields.

   The system displays the message:
   ALTERNATE ELEMENT MAPPING ADDED

The system moves the value in the **GEN-TRN-REF** (reserved word for Transaction Control number values) into the **0-TRN-CONTROL** field in the application.



Inbound Mapping is complete.

9. Press **PF3=Exit** three times.

   The system displays the Sterling Gentran Main Menu.

Partner Maintenance

Overview

In this section of the Tutorial, you will modify the Partner Outbound Information screen to put segments and transaction counts in the envelope trailer segments.

To accomplish the task listed above, you will:

- Enter the values needed for the PTR envelope: Generic Element 2 – &SEGCNT2 and Generic Element 3 – &TRNCNT.
- Enter the value needed for the TTR envelope: Generic Element 1 – &SEGCNT2.

Exercise

Complete the following steps to complete the Partner Maintenance procedure.

> **Note:** This portion of the tutorial is illustrated with screens as they appear in Partner/Qualifier processing mode. If you are processing in Relationship mode, your screens will display the fields User and Partner instead of Partner ID and Qualifier. The partner profile ID for Relationship mode for this tutorial is User: Yourcompany; Partner: Lawnvend. The functionality is the same for either mode.

1. Type `1` on the Sterling Gentran Main Menu to select Partner Maintenance Menu.

   The system displays the Partner Maintenance Menu.

2. Type `2` to select Partner Maintenance.

   The system displays the Partner Selection Menu.

3. Type **`LAWNVEND`** in the Partner ID field and press **Enter**.

The system displays the **LAWNVEND** partner name and partner ID.

```
EDIM007 1.2_______          PARTNER SELECTION MENU              XXX  06/01/2011
                                                                      12:00:00


           LAWN VENDOR FOR DEMONSTRATION
  Part ID:  LAWNVEND_____________________________     Qual: _______________
  Copy ID:  _____________________________________     Qual: _______________
         Type the number of your selection below and press ENTER,
         or press the PF3 key to Exit.
                      _  1.  Header Information
                         2.  Interchange Directory
                         3.  Group Directory
                         4.  Transaction Directory
                         5.  Name and Address
                         6.  User Defined
                         7.  Data Separation
                         8.  Error Rejection

                         9.  Copy All Records
                                                 Job Name: _________
PLEASE ENTER OPTION
Enter PF1=Help            PF3=Exit PF4=Dir
      PF7=Rpt
```

4. Type **2** to select Interchange Directory and press **Enter**.

   The system displays the Interchange Directory screen.

5. Type **S** in the A (Action Code) field next to the GEN header option and press **PF5=Ctrl**.

   The system displays the Control Information screen – 1.

```
EDIM015 1.2.2.1___          CONTROL INFORMATION             XXX   06/01/2011
                                                                    12:00:00


         LAWN VENDOR FOR DEMONSTRATION
Part ID: LAWNVEND                                Qual:
Multiple Envelope Id:  ___                     Version: ____________
Interchange Header Option....:  GEN  (ISA ICS BG GS UNA UNB SCH STX GEN)
Last Incoming Sequence Number:  _______________
EDI Databank Inbound.........:  _ (D/N)        Outbound.........:  _  (F/D/N)
Expect a TA1, AC1, or UCI....:  _ (Y/N)        Network Tracking.:  _  (Y/N)
Acknowledge Interchange......:  _ (Y/N/E)      Errors...........:  _  (Y/N)


Last Incoming BG Password....:  __________     Syntax Version...:  /
Mailbox/Remote ID (For Plus).:  ________
Network ID.(For PLUS)........:  _______________
Viewpoint - Exception........:  _ (Y/N)        Tracking.........:  _  (Y/N)
Reconciliation Delay (days)..:  ___


Enter PF1=Help           PF3=Exit PF4=IDir       PF5=Control    PF6=Next Ctl
                       PF9=Add PF10=Updt PF11=Del             PF14=Info
```

6. Press **PF5=Control**.

   The system displays the Control Information screen – 2.

We have already tied the PTR envelope to the PHD in Standards Maintenance. We have already used Generic Element 1 in the PHD envelope—we want to move the count of segments and transaction totals into the PTR envelope. We will use Generic Elements 2 and 3 to fulfill this purpose. These are reserved values for segment counts.

7. Type **&SEGCNT2** in the Generic Element 2 field.

   This value contains the number of segments in the packet.

8. Type **&TRNCNT2** in the Generic Element 3 field.

This value contains the number of transactions in the packet.

9. Press **PF10=Update**.

   The system updates the fields and displays the message **PARTNER UPDATED**.

```
EDIM011 __________          CONTROL INFORMATION              XXX   06/01/2011
                                                                    12:00:00


          LAWN VENDOR FOR DEMONSTRATION
  Part ID: LAWNVEND                                  Qual:
Multiple Envelope Id:
Outbound envelope information for Generic Interchange:

Envelope ID...:  PHD                    Modifier......:  _
Sender ID.....:  LAWNCUST_______
Receiver ID...:  LAWNVEND_______
Version ID....:  JASS________
Transaction ID:  ______
Reference.....:  000000000000000001
Gen Element 1.:  MOWING_____________   Gen Element 2.:  &SEGCNT2___________
Gen Element 3.:  &TRNCNT2___________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________   Gen Element 8.:  ____________________
Gen Element 9.:  ____________________   Gen Element 10:  ____________________
PARTNER UPDATED
Enter PF1=Help            PF3=Exit PF4=Ctrl       PF5=GDir
                                PF10=Updt                     PF14=Info
```

10. Press **PF5=GDir**.

    The system displays the Group Directory screen.

11. Type **s** beside the 0909 Group ID and press **PF5=Group**.

    The system displays the Group Information screen.

12. Press **PF5=TDir**.

    The system displays the Transaction Directory screen.

13. Type **s** in the A (Action Code) field beside the 0909 Trans ID and press **PF5=Trans**.

    The system displays the Transaction Information screen.

We have already tied the TTR envelope to the THD in Standards Maintenance. We want the count of transactions moved into the TTR envelope. We will use Generic-Element 1 to fulfill this purpose.

14. Type **`&SEGCNT2`** in the Generic Element 1 field and press **PF10=Updt**.

    This value contains the number of segments in a transaction. The system updates the field and displays the message **`TRANS 0909 UPDATED`**.

```
EDIM044 1.2.3_____        TRANSACTION INFORMATION            XXX   06/01/2011
                                                                      12:00:00


          LAWN VENDOR FOR DEMONSTRATION
Part ID:  LAWNVEND                                  Qual:
Transaction ID:  0909__   Multiple Env Id:

Translation Map ID Inbound..:  __________     Outbound:  __________
Application Databank Inbound:  F  (F/D/N)     Outbound:  F  (F/D/N)

Outbound envelope information for Generic Transaction:
  Envelope ID..:  THD                  Modifier......:  _
  Sender ID....:  _______________      Receiver ID...:  _______________
  Version ID...:  ____________         Reference.....:  000000000000000001
  Gen Element 1:  &SEGCNT2____________ Gen Element 2.:  ____________________
  Gen Element 3:  ____________________ Gen Element 4.:  _______________
  Gen Element 5:  _______________


 TRANS 0909   UPDATED
Enter PF1=Help            PF3=Exit PF4=TDir      PF5=Name       PF6=Nxt Tran
                       PF9=Add PF10=Updt PF11=Del           PF14=Info
```

The Partner Tutorial is complete.

15. Press **PF3=Exit** three times.

    The system displays the Sterling Gentran Main Menu.

Sterling Gentran:Basic Users

You should now run the **STRINB** and **STROUT** jobs to process the inbound and outbound scenarios.

Sterling Gentran:Realtime Users

You should execute the inbound and outbound processes as outlined in Chapter 4, “Performing Installation Verification” in the *IBM® Sterling Gentran:Structure® for z/OS® Release 6.6 Installation Guide*.

Chapter 3 Screens

Overview

This chapter describes the Sterling Gentran:Structure screens and how the system features relate to those of Sterling Gentran:Basic and Sterling Gentran:Realtime.

This chapter contains the following topics:

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Jump Codes

A jump code is a 10-character alphanumeric field located at the upper left corner of each Sterling Gentran screen. This field enables you to move, or *jump*, directly from one screen to another while bypassing menus. All screens that are accessible by means of a menu have jump code values associated with them. Screens that are accessible only from detail screens do not have jump code values associated with them.

How to Jump Between Screens

You can jump between screens without having to navigate using the menus. Use the following procedure to jump between screens:

1. Press **Home**.

   The insertion point moves to the jump code field at the top of the screen to the right of the screen name.

2. Type the jump code, and press **Enter**.

For a complete list of Sterling Gentran:Structure jump codes and their associated screens, see Appendix A of this guide.

The following table describes some of the terms and definitions used in this discussion:

Term	Meaning
Subsystem	A set of functionally-related screens that are directly accessible from the Sterling Gentran Main Menu (e.g., Partner Maintenance, Standards Maintenance, Databank Maintenance, Administrative Maintenance, Mapping Maintenance).
Navigation	The movement from screen to screen by typing data then pressing the function keys (e.g., **PF1**, **PF2**) or by selecting options on menus and pressing **Enter**.
Position	The location within a subsystem file (or group of files) that displays the data (either one record or multiple records) on the screen.

Types of Jump Codes

The three types of jump codes are:

- Numeric
- Alphabetic
- Special Character

Numeric Jump Codes

Numeric jump codes consist of numbers separated by periods (.). The numbers in the jump code correspond to the numbers selected on menus, in the order in which they are selected.

Example

To display the Application Data ID screen without using the jump code, you could navigate using the Sterling Gentran:Realtime menus by performing the following steps:

1. Type **`5`** on the Sterling Gentran Main Menu, and press **Enter**.
2. Type **`1`** on the Mapping Maintenance Menu, and press **Enter**.
3. Type **`2`** on the Application Definition Menu, and press **Enter**.

... OR you could jump directly to the Application Data ID screen by performing these steps:

1. Press **Home**.
2. Type **`5.1.2`** in the jump code field of any screen, and press **Enter**.

For a complete list of Sterling Gentran:Structure jump codes and their associated screens, see Appendix A of this guide.

Alphabetic Jump Codes

Alphabetic jump codes consist of alphabetic characters separated by periods (.). The alphabetic code is an abbreviated reference to the screen name or function.

Example

To display the Application Data ID screen using the alphabetic jump code, type **`APP.DEF`** or **`APP.ID`** in the jump code field of any screen, and press **Enter**.

For a complete list of Sterling Gentran:Structure jump codes and their associated screens, see Appendix A of this guide.

Special Character Jump Codes

Special character jump codes enable you to perform standard or generic functions with jump codes. The two special character jump codes are SWAP and EXIT.

- SWAP enables you to jump *between* Gentran online subsystems, not *within* subsystems. When you use jump code SWAP, you jump to the last screen you *jumped from* (but not *navigated from*), from another subsystem. When you jump from a different subsystem, you reset the SWAP positioning to the screen you're jumping from.

Example

Let's say you have the Group Information screen in the Partner subsystem displayed, and then you bring up the Transaction Information screen (also in the Partner subsystem). From here, you *jump* to the Name and Address screen (again, in the Partner subsystem). Next, you *jump* to the Transaction screen in the Standards subsystem. After you view the information on the Transaction screen, you type **`SWAP`** in the jump code field to return to your previous location in the Partner subsystem. SWAP returns you to the Name and Address screen in the Partner subsystem, because this is the screen from which you jumped to the Standards subsystem.

- EXIT (or X) enables you to jump to the Sterling Gentran:Realtime Logoff screen. This feature provides a quick and easy way to exit the Sterling Gentran:Realtime system from any screen.

User-Defined Jump Code Table

The User-Defined Jump Code table is a user customization facility that enables you to define your own jump code values. This facility requires a table that consists of the 10-character user code and the 10-character Sterling Gentran:Realtime jump code. It must be coded in an Assembler table and the name of the table must be entered on the Configuration file (Record Type 0). An entry for the table name must be added to your CICS PPT table.

When you enter a jump code, the system verifies that the jump code you entered is valid by first checking the User-Defined Jump Code table. If you have not defined a User-Defined Jump Code table, or if the jump code you entered is not in that table, then the system checks the default jump code table.

For help using the User-Defined Jump Code Table, refer to Installing Sterling Gentran:Basic Release 6.6 in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 Installation Guide*. Also, see member EDIJUMP in the GENTRAN.V6X6.BSC.UTILITY.SOURCE library.

Jump Code Guidelines

The Sterling Gentran:Basic system keeps independent position information for each subsystem (Partner, Standards, Databank, Administrative, Mapping), as well as for Sterling Gentran:Realtime add-on products (IBM® Sterling Gentran:Plus® for z/OS®, IBM® Sterling Gentran:Control® for z/OS®, IBM® Sterling Gentran:Realtime® for z/OS®, and IBM® Sterling Gentran:Viewpoint® for z/OS®). Sterling Gentran:Structure functionality is part of Sterling Gentran:Basic. The independence of these subsystems enables you to jump or navigate from subsystem to subsystem without having to re-enter a key for that screen.

The general rules for using jump codes are the following:

- You can only *jump to* screens that are directly accessible through selecting menu options.
- You can *jump from* any screen.

- Navigating or jumping to the Sterling Gentran:Realtime Copyright/Signon screen or exiting the Sterling Gentran:Realtime system clears the positions for all subsystems.
- After you *jump from* a subsystem to another subsystem, you can return directly to the screen you *jumped from* by typing **`SWAP`** in the jump code field.
- You cannot use SWAP to jump between screens within the same subsystem.
- Typing **`SWAP`** is the only method by which you can *jump to* a screen that has no jump code associated with it, as long as SWAP positioning has been established by jumping from one subsystem screen to a different subsystem screen.
- Typing an invalid jump code causes the system to return to the *jumped from* screen and display the message **`Invalid jump code entered`**.
- You cannot *jump to* subsystems that are not installed or for which you do not have security access. If you try, the system displays the message **`Invalid jump — user lacks authority`** on the current screen.

How Sterling Gentran:Structure Relates with Sterling Gentran:Basic Features

Subsystems

The following Sterling Gentran:Basic subsystems support Sterling Gentran:Structure:

- Partner Maintenance
- Standards Maintenance
- Mapping Integration
- Databank Maintenance

A description of each subsystem follows.

Partner Maintenance

This subsystem enables you to define generic or user-defined envelopes that might be necessary to support a proprietary, fixed-format standard. An interchange header option, identified by the characters 'GEN,' identifies this type of enveloping.

Screens are defined at the interchange, group, and transaction levels, where it is possible to specify exactly what information should be loaded to these generic envelopes during envelope generation.

Standards Maintenance

You must define fixed-format standards to Sterling Gentran:Basic before they can be mapped. The Standards Maintenance screens enable you to define these standards.

The Element Definition screen permits the specification of the additional data types that are supported for fixed-format standards.

Two additional screens describe the layout of all of the envelope structures that are necessary to process the standard. The system uses these definitions in conjunction with the information defined for the trading partner to generate outbound envelopes. During inbound processing, the system uses this information for version/transaction identification, partner determination, and mapping.

Mapping Integration

The Transaction Definition identifies the standard type to be mapped and determines the location of the segment ID.

Databank Maintenance

The Databank Maintenance subsystem enables you to view Sterling Gentran:Structure documents from Sterling Gentran:Realtime or Sterling Gentran:Basic databanks.

Change Audit

This subsystem allows you to view change audit records that were created during online maintenance of selected files. For Sterling Gentran:Structure, two additional screens allow you to

view change audit records created for the User Envelope file. These screens are used when viewing user envelope change audit records.

Partner Maintenance Subsystem

Overview

This section describes how the Partner Maintenance subsystem supports Sterling Gentran:Structure.

The Partner Maintenance subsystem allows the definition of inbound and outbound generic envelope information on the partner profile at the Control (Interchange), Group, and Transaction levels. The following table describes the screens that define the envelopes.

Screen	Description
Control Information – screen 1 (EDIM015)	Allows partners to be set up with generic interchange header types to support Sterling Gentran:Structure.
Control Information – screen 2 (EDIM011)	Defines outbound envelope information for generic interchanges.
Group Information screen (EDIM034)	Defines outbound envelope information for generic groups.
Transaction Information screen (EDIM044)	Defines outbound envelope information for generic transactions.

Note: See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information concerning the Partner Maintenance subsystem.

Screen information follows.

Control Information – Screen 1 with Generic Header Option EDIM015

Purpose

The Control Information screen displays a generic interchange Header Option prompt (GEN) when Sterling Gentran:Structure is enabled. Selecting the GEN option indicates to the system that you are going to define your own envelopes for this trading partner. You control the format of these envelopes.

The system displays this screen if the GEN Interchange Header Option is available to handle proprietary, fixed-format standards.

If Sterling Gentran:Structure is not enabled, the system displays the Standard Control Information screen and the GEN Interchange Header Option is not available.

Some Fields Not Required

Certain fields on this screen are not required for using proprietary, fixed-format standards. These fields are protected; you cannot enter your own values. If you are setting up a Generic Interchange Header option and these fields have values, the system moves spaces to these fields and prevents further updates to them. The fields not required are:

- Last Incoming Sequence Number
- EDI Databank Inbound
- Expect a TA1, AC1, or UCI
- Acknowledge Interchange
- Last Incoming BG Password
- Network ID (For PLUS)

See the “Field Descriptions” section for detailed field information.

How to Access

Access the Control Information screen by completing the following steps.

1. On the Partner Maintenance Menu, type `1` to select Partner Directory. The system displays the Partner Directory screen.
2. Type an `S` in the A (Action Code) field next to the Partner you want to select, and press **PF5=Maint**. The system displays the Partner Selection Menu.
3. Type `2` to select Interchange Directory and press **Enter**. The system displays the Interchange Directory screen.
4. Type an `S` in the A (Action Code) field next to an interchange with a GEN header, and press **PF5=Control**.

The system displays the Control Information screen.

Screen Examples

The following diagrams illustrate the Control Information – Screen 1 with Generic Entry for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
EDIM015 1.2.2.1___          CONTROL INFORMATION            XXX   06/01/2011
                                                                   12:00:00


         LAWN VENDOR FOR DEMONSTRATION
Part ID: LAWNVEND                                 Qual:
Multiple Envelope Id:  ___                      Version: ____________
Interchange Header Option....:  GEN  (ISA ICS BG GS UNA UNB SCH STX GEN)
Last Incoming Sequence Number:  _______________
EDI Databank Inbound.........:  _ (D/N)         Outbound.........:  _  (F/D/N)
Expect a TA1, AC1, or UCI....:  _ (Y/N)         Network Tracking.:  _  (Y/N)
Acknowledge Interchange......:  _ (Y/N/E)       Errors...........:  _  (Y/N)


Last Incoming BG Password....:  __________       Syntax Version...:  /
Mailbox/Remote ID (For Plus).:  _________
Network ID.(For PLUS)........:  ________________
Viewpoint - Exception........:  _ (Y/N)         Tracking.........:  _  (Y/N)
Reconciliation Delay (days)..:  ___


Enter PF1=Help            PF3=Exit PF4=IDir       PF5=Control    PF6=Next Ctl
                       PF9=Add PF10=Updt PF11=Del         PF14=Info
```

Relationship Mode

```
EDIM015 1.2.2.1___          CONTROL INFORMATION            XXX   06/01/2011
                                                                   12:00:00


         YOUR COMPANY                           EXAMPLE OF A FIX FORMAT PARTNE
User...: YOUR COMPANY                           Partner: LAWNVEND
Multiple Envelope Id:  ___                      Version: ____________
Interchange Header Option....:  GEN  (ISA ICS BG GS UNA UNB SCH STX GEN)
Last Incoming Sequence Number:  _______________
EDI Databank Inbound.........:  _ (D/N)         Outbound.........:  _  (F/D/N)
Expect a TA1, AC1, or UCI....:  _ (Y/N)         Network Tracking.:  _  (Y/N)
Acknowledge Interchange......:  _ (Y/N/E)       Errors...........:  _  (Y/N)


Last Incoming BG Password....:  __________       Syntax Version...:  /
Mailbox/Remote ID (For Plus).:  _________
Network ID.(For PLUS)........:  ________________
Viewpoint - Exception........:  _ (Y/N)         Tracking.........:  _  (Y/N)
Reconciliation Delay (days)..:  ___


Enter PF1=Help            PF3=Exit PF4=IDir       PF5=Control    PF6=Next Ctl
                       PF9=Add PF10=Updt PF11=Del         PF14=Info
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF4=IDir Displays the Interchange Directory.

PF5=Control Displays the Control Information screen (screen 2), for the Partner ID and interchange header option selected. For example, if the GEN interchange header option is selected for the specified Partner ID, the system displays the Control Information (screen 2 – GEN OPTIONS) screen.

PF6=Next Ctl Displays the next sequential control record.

PF9=Add Adds a control record for a new Partner ID being added to the partner profile.

Note: When you add a new Control record, Sterling Gentran automatically adds default Group and Transaction records, based on the !!!GENTRAN–RESERVED–PARTNER– ID–1 (Partner/Qualifier mode)

OR

!!!GENTRAN-RU1/!!!GENTRAN-RP1 (Relationship mode)

PF10=Updt Updates the control record for an existing Partner ID.

PF11=Del Deletes a control record and its subordinates (records with the same Version/Multiple Envelope IDs) for an existing Partner ID for the indicated header option.

PF14=Info Displays the date, time and user initials on the message line, to indicate when the information on this screen was created or last changed.

Field Descriptions

Note: Fields that are display–only contain the statement (protected) next to the field name in the documentation.

Fields in which you *must* enter a value are labelled as "required" in the documentation.

Jump Code

A 10–position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump and press **Enter**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
(**Partner Name** – protected)	A 35–position alphanumeric field used to display the partner name, as found on the Name and Address record. The partner name can help to further identify the Partner ID.	(**User Name** – protected)	A 35–position alphabetic field displaying the user name, if it exists on file for the User/Partner ID.
Part ID (protected)	Displays the Partner ID that you have entered or selected. **Note:** The Partner ID and Qualifier make up the key for all associated records.	(**Partner Name**– protected)	A 35–position alphabetic field displaying the partner name, if it exists on file for the User/Partner ID.
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**User/Partner** (protected)	Two 15–position alphabetic fields that display the User/ Partner ID you have entered or selected.

Multiple Envelope Id

A 3–position alphabetic field used to identify the envelope type for this interchange record within the partner profile. This field allows a single partner profile to have multiple EDI standards (e.g., X12, EDIFACT, TRADACOMS) defined under it. It eliminates the need to create multiple partner profiles for a single trading partner in the event that the partner uses more than one EDI standard. Valid values include these standards: **ISA**, **ICS**, **BG**, **GS**, **UNA**, **UNB**, **SCH**, **STX**, **GEN**, and spaces.

Version

Sterling Gentran:Structure does not use this field.

Interchange Header Option (required)

A 3–position alphabetic field identifying the type of interchange envelope to be used for outbound transactions. The envelope allows you to label an outbound transaction. Valid values include these standards: **ISA**, **ICS**, **BG**, **GS**, **UNA**, **UNB**, **SCH**, **STX, GEN**. For example, ISA = the segment ID for the interchange envelope header segment; GS = the segment ID for group envelope header segment when an interchange envelope is not used.

Last Incoming Sequence Number

Sterling Gentran:Structure does not use this field.

EDI Databank Inbound

Sterling Gentran:Structure does not use this field.

Outbound

Sterling Gentran:Structure does not use this field.

Expect a TA1, AC1, or UCI
Sterling Gentran:Structure does not use this field.

Network Tracking
Sterling Gentran:Structure does not use this field.

Acknowledge Interchange
Sterling Gentran:Structure does not use this field.

Errors
Sterling Gentran:Structure does not use this field.

Last Incoming BG Password
Sterling Gentran:Structure does not use this field.

Syntax Version
Sterling Gentran:Structure does not use this field.

Mailbox/Remote ID (For PLUS) (For Sterling Gentran:Plus Only)
Sterling Gentran:Structure does not use this field.

Network ID (For PLUS) (For Sterling Gentran:Plus Only)
Sterling Gentran:Structure does not use this field.

Sterling Gentran:Viewpoint Installed

Viewpoint – Exception
A 1–position field indicating whether Sterling Gentran:Viewpoint Exception Management activity is performed at the interchange level for this partner. Valid values are:

Y	=	Yes, Tracking Management is performed.
N	=	No, Exception Management is not performed.
blank	=	Defaults to the value **Y** and the Exception Management processing is controlled by the Configuration File Exception Management Partner Default Indicator.

Viewpoint – Tracking
A 1–position field indicating whether Sterling Gentran:Viewpoint Tracking Management activity is performed at the interchange level for this trading partner. Valid values are:

Y	=	Yes, Tracking Management is performed.
N	=	No, Tracking Management is not performed.
blank	=	Defaults to the value **Y** and the Tracking Management processing is controlled by the Configuration Field Tracking Management Partner default indicator.

See “Defining and Initializing Files” in the Sterling Gentran:Viewpoint *Installation Guide* for more information.

The installation default is Exception Management.

Reconciliation Delay (days)
Sterling Gentran:Structure does not use this field.

Control Information – Screen 2 with Generic Options EDIM011

Purpose

The Control Information screen enables you to create outbound envelopes. If you are not sending documents to your trading partner, you can skip this screen. If you plan to send outbound documents and you are sending envelopes at the interchange level, you must complete this screen.

This screen specifies the information that is placed in the generic interchange envelope for a proprietary, fixed-format standard. The system moves the information specified on this screen to either the header envelope identified by the Envelope ID field or its associated trailer envelope.

The location of the fields to be moved and the associated trailer envelope are defined using the User Envelope Specification screens in Standards Maintenance. If these envelopes are not defined in the User-Envelope file, the envelope generation process fails.

Note: This Sterling Gentran:Structure screen will generate change audit records for Fixed Format Partner Control records if Partner Change Audit is enabled. See chapter 7, "Tips and Techniques," in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Change Audit functionality.

How to Access

Access this screen from the Control Information – screen 1 by pressing **PF5=Control**.

Screen Example

The following diagrams illustrate the Control Information – screen 2 with Generic Options for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
EDIM011 __________          CONTROL INFORMATION              XXX   06/01/2011
                                                                    12:00:00


          LAWN VENDOR FOR DEMONSTRATION
  Part ID: LAWNVEND                                 Qual:
Multiple Envelope Id:
Outbound envelope information for Generic Interchange:

Envelope ID...:  PHD                    Modifier......:  _
Sender ID.....:  LAWNCUST_______
Receiver ID...:  LAWNVEND_______
Version ID....:  JASS________
Transaction ID:  ______
Reference.....:  000000000000000001
Gen Element 1.:  MOWING_____________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________   Gen Element 8.:  ____________________
Gen Element 9.:  ____________________   Gen Element 10:  ____________________

Enter PF1=Help            PF3=Exit PF4=IDir       PF5=GDir
                                PF10=Updt                PF14=Info
```

Relationship Mode

```
EDIM011 __________          CONTROL INFORMATION              XXX   06/01/2011
                                                                    12:00:00


          YOUR COMPANY                          EXAMPLE OF A FIX FORMAT PARTNE
  User...: YOUR COMPANY                         Partner: LAWNVEND
Multiple Envelope Id:
Outbound envelope information for Generic Interchange:

Envelope ID...:  PHD                    Modifier.....:  _
Sender ID.....:  LAWNCUST_______
Receiver ID...:  LAWNVEND_______
Version ID....:  JASS________
Transaction ID:  ______
Reference.....:  000000000000000001
Gen Element 1.:  MOWING_____________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________   Gen Element 8.:  ____________________
Gen Element 9.:  ____________________   Gen Element 10:  ____________________

Enter PF1=Help            PF3=Exit PF4=IDir       PF5=GDir
                                PF10=Updt                PF14=Info
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

To delete the specified trading partner's ISA parameters, you must first return to the Control Information screen (screen 1) by pressing the **PF4** key.

PF4=IDir	Displays the Interchange Directory screen for the Partner ID selected.
PF5=GDir	Displays the Group Directory for the Partner ID currently displayed.
PF10=Updt	Updates the ISA parameters for an existing Partner ID.
PF14=Info	Displays the date, time and user initials on the message line, to indicate when the information on this screen was created or last changed.

Field Descriptions

Note: Fields that are display-only contain the statement (protected) next to the field name in the documentation.

Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10–position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, and then press **Enter**.

See the "Jump Codes" section at the beginning of this chapter for further information on using jump codes.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
(**Partner Name** – protected)	A 35–position alphanumeric field used to display the partner name, as found on the Name and Address record. The partner name can help to further identify the Partner ID.	(**User Name** – protected)	A 35–position alphabetic field displaying the user name, if it exists on file for the User/Partner ID.
Part ID (protected)	Displays the Partner ID that you have entered or selected. **Note:** The Partner ID and Qualifier make up the key for all associated records.	(**Partner Name**– protected)	A 35–position alphabetic field displaying the partner name, if it exists on file for the User/Partner ID.
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**User/Partner** (protected)	Two 15–position alphabetic fields that display the User/ Partner ID you have entered or selected.

Multiple Envelope Id

A 3-position alphabetic field to identify the envelope type for this interchange record within the partner profile. This field allows a single partner profile to have multiple EDI standards (e.g., X12, EDIFACT, TRADACOMS) defined under it. It eliminates the need to create multiple partner profiles for a single trading partner in the event that the partner uses more than one EDI standard. Valid values include these standards: **ISA**, **ICS**, **BG**, **GS**, **UNA**, **UNB**, **SCH**, **STX**, **GEN**, and spaces.

Envelope ID

A 3-position alphanumeric field that defines which generic envelope should be used when generating the generic interchange. This envelope ID should be defined using the User Envelope Specification screen in Standards Maintenance. If this field is has a value, the Outbound Mapping program attempts to generate this envelope and its associated trailer (if one is defined).

Modifier

A 1-position alphanumeric field to differentiate one Envelope ID from another, if the same Envelope ID is defined multiple times in the user-envelope specification.

Sender ID

A 15-position alphanumeric field to define your interchange Sender ID.

If you type data in the Sender ID field, the system maps it into the header envelope or associated trailer envelope as specified in the Sender ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Receiver ID

A 15-position alphanumeric field to define your trading partner's interchange Receiver ID.

If you type data in the Receiver ID field, the system maps it into the header envelope or associated trailer envelope as specified in the Receiver ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Version ID

A 12-position alphanumeric field to define the version of the proprietary, fixed-format standard used to process the data sent to this trading partner.

If you type a value in the Version ID field, it will be mapped into the header envelope or associated trailer envelope as specified in the Version ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Transaction ID

A 6-position alphanumeric field to define the transaction set for the proprietary, fixed-format version.

If you type a value in the Transaction ID field, the system maps it into the header envelope or associated trailer envelope as specified in the Transaction ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Reference

An 18-position alphanumeric field to automatically generate the interchange reference number.

If the Reference field contains numeric data, the system increments it by '1' and maps it into the header envelope or associated trailer envelope as specified in the Reference Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance. If this field contains alphanumeric data, the system maps it into the envelope unchanged.

Gen Element 1 (Generic Element 1)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 2 (Generic Element 2)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 3 (Generic Element 3)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 4 (Generic Element 4)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 5 (Generic Element 5)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 6 (Generic Element 6)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 7 (Generic Element 7)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 8 (Generic Element 8)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 9 (Generic Element 9)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 10 (Generic Element 10)
A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Reserved Words

The following reserved words can be used in Generic Elements 1 through 10. **These reserved words are only valid in the interchange trailer segments.**

&SEGCNT	The number of segments generated between the interchange header and the interchange trailer. This count does *not* include the interchange header and trailer.
&SEGCNT2	The number of segments generated between the interchange header and the interchange trailer. This count *does* include the interchange header and trailer.
&TRNCNT	The number of transaction headers generated between the interchange header and trailer.
&GRPCNT	The number of group headers generated between the interchange header and trailer.

Group Information Screen – Generic EDIM034

Purpose

The Group Information screen allows you to identify separate types of processing for various functional groups.

The system automatically adds a default group record when a new Partner Control record is added. If you intend to use the default group record, you should update the record to reflect the appropriate information for your trading partner. Most often, however, users create a separate group record for each type of functional group that will be sent or received.

This screen specifies the information that will be placed in the generic group envelope for a proprietary, fixed-format standard. The system moves the information specified on this screen to either the header envelope identified by the Envelope ID field or its associated trailer envelope.

The location of the fields to be moved and the associated trailer envelope are defined using the User Envelope Specification screens in Standards Maintenance. If these envelopes are not defined in the User-Envelope file, the envelope generation process fails.

> **Note:** This Sterling Gentran:Structure screen will generate change audit records for Fixed Format Partner Group records if Partner Change Audit is enabled. See chapter 7, "Tips and Techniques," in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Change Audit functionality.

How to Access

Access the Group Information screen by completing the following steps.

1. On the Partner Maintenance Menu, select `2`, Partner Maintenance, and press **Enter**. The system displays the Partner Selection Menu.

2. **For Partner/Qualifier Mode:**
   Type a valid Partner ID in the Part ID field and Qualifier in the Qual field.

   OR

   For Relationship (User/Partner) Mode:
   Type a valid User in the User field and Partner in the Partner field.

3. Type `3` to select Group Directory and press **Enter**. The system displays the Group Directory screen.

4. Type an `s` in the A (Action Code) field next to the selected Group ID and press **PF5=Group**. The system displays the Group Information screen.

Screen Examples

The following diagrams illustrate the Group Information screen for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
EDIM034 1.2.3.1___          GROUP INFORMATION              XXX   06/01/2011
                                                                   12:00:00


          LAWN VENDOR FOR DEMONSTRATION
 Part ID:  LAWNVEND                                Qual:
Group ID:  !!!DFT        Multiple Env Id:

Outbound envelope information for Generic Group:

Envelope ID...:  ___                    Modifier......:  _
Sender ID.....:  _______________
Receiver ID...:  _______________
Version ID....:  _____________
Transaction ID:  ______                 Reference.....:  ____________________
Gen Element 1.:  ____________________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________


Enter PF1=Help            PF3=Exit PF4=GDir       PF5=TDir       PF6=Next Grp
                       PF9=Add PF10=Updt PF11=Del           PF14=Info
```

Relationship Mode

```
EDIM034 1.2.3.1___          GROUP INFORMATION              XXX   06/01/2011
                                                                   12:00:00


          YOUR COMPANY                        LAWNVENDOR FOR DEMONSTRATION
User....:  YOUR COMPANY                       Partner:  LAWNVEND
Group ID:  !!!DFT        Multiple Env Id:

Outbound envelope information for Generic Group:

Envelope ID...:  ___                    Modifier......:  _
Sender ID.....:  _______________
Receiver ID...:  _______________
Version ID....:  _____________
Transaction ID:  ______                 Reference.....:  ____________________
Gen Element 1.:  ____________________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________


Enter PF1=Help            PF3=Exit PF4=GDir       PF5=TDir       PF6=Next Grp
                       PF9=Add PF10=Updt PF11=Del           PF14=Info
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

Enter	Displays a different group definition. Type a complete Group ID in the Group ID field and press **Enter**.
PF4=GDir	Displays the Group Directory screen for the Partner ID selected.
PF5=TDir	Displays the Transaction Directory screen for the Partner ID selected.
PF6=Next Grp	Displays the next functional group record for the specified Group ID.
PF9=Add	Adds group information to a new trading partner. Enter the appropriate parameter values and press **PF9=Add**.
PF10=Updt	Updates group information for an existing trading partner. Type the new data over the existing data and press **PF10=Updt**.
PF11=Del	Deletes the displayed group record for an existing trading partner. Press **PF11=Del** to delete the data. The system will prompt you to confirm the delete.
PF14=Info	Displays the date, time and user initials on the message line, to indicate when the information on this screen was created or last changed.

Field Descriptions

Note: Display-only fields contain the statement (protected) next to the field name in the documentation.

Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10–position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, and then press **Enter**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
(**Partner Name** – protected)	A 35–position alphanumeric field used to display the partner name, as found on the Name and Address record. The partner name can help to further identify the Partner ID.	(**User Name** – protected)	A 35–position alphabetic field displaying the user name, if it exists on file for the User/Partner ID.
Part ID (protected)	Displays the Partner ID that you have entered or selected. **Note:** The Partner ID and Qualifier make up the key for all associated records.	(**Partner Name**– protected)	A 35–position alphabetic field displaying the partner name, if it exists on file for the User/Partner ID.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**User/Partner** (protected)	Two 15–position alphabetic fields that display the User/ Partner ID you have entered or selected.

Group ID

A 6-position alphanumeric field to define the group ID for the proprietary, fixed-format version for the Partner ID displayed.

Multiple Env Id

A 3–position alphabetic field to identify the envelope type for this interchange record within the partner profile. This field allows a single partner profile to have multiple EDI standards (e.g., X12, EDIFACT, TRADACOMS) defined under it. It eliminates the need to create multiple partner profiles for a single trading partner in the event that the partner uses more than one EDI standard. Valid values include these standards: **ISA**, **ICS**, **BG**, **GS**, **UNA**, **UNB**, **SCH**, **STX**, **GEN**, and spaces.

Envelope ID

A 3-position alphanumeric field that defines which generic envelope the system will use when generating the generic group. This envelope ID should be defined using the User Envelope Specifications screen in Standards Maintenance. If this field has a value, the Outbound Mapping program attempts to generate this envelope and its associated trailer (if one is defined).

Modifier

A 1-position alphanumeric field to differentiate one Envelope ID from another, if the same Envelope ID is defined multiple times in the user-envelope specifications.

Sender ID

A 15-position alphanumeric field to define your interchange Sender ID.

If the Sender ID field contains data, the system maps it into the header envelope or associated trailer envelope as specified in the Sender ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Receiver ID

A 15-position alphanumeric field to define your trading partner's interchange Receiver ID.

If the Receiver ID field contains data, the system maps it into the header envelope or associated trailer envelope as specified in the Receiver ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Version ID

A 12-position alphanumeric field to define the version of the proprietary, fixed-format standard to process the data sent to this trading partner.

If the Version ID field contains data, the system maps it into the header envelope or associated trailer envelope as specified in the Version ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

The system also uses this field to determine which general transaction map will be selected for outbound processing.

Transaction ID

A 6-position alphanumeric field to define the transaction set for the proprietary, fixed-format version.

If the Transaction ID field contains data, the system maps it into the header envelope or associated trailer envelope as specified in the Transaction ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Reference

An 18-position alphanumeric field to automatically generate the interchange reference number.

If the Reference field contains numeric data, the system increments it by '1' and maps it into the header envelope or associated trailer envelope as specified in the Reference Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance. If the field contains alphanumeric data, the system maps it into the envelope unchanged.

Gen Element 1 (Generic Element 1)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 2 (Generic Element 2)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 3 (Generic Element 3)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 4 (Generic Element 4)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 5 (Generic Element 5)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 6 (Generic Element 6)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 7 (Generic Element 7)

A 20-position field to define what data the system will map to the interchange header or associated trailer into the position defined on the Version/Outbound Specification screen.

Reserved Words

The following reserved words can be used in Generic Elements 1 through 7. **These reserved words are only valid in the group trailer segments.**

&SEGCNT	The number of segments generated between the group header and the group trailer. This count does not include the group header and trailer.
&SEGCNT2	The number of segments generated between the group header and the group trailer. This count does include the group header and trailer.
&TRNCNT	The number of transaction headers generated between the group header and trailer.

Transaction Information Screen – Generic EDIM044

Purpose

The Transaction Information screen allows you to identify separate processing for various transactions.

The system automatically adds a default transaction record when a new Partner Control record is added. If you intend to use the default transaction record, you should update the record to reflect the appropriate information for your trading partner. Most often, however, users create a separate transaction record for each type of transaction set that will be sent or received.

This screen specifies the information that is placed in the generic transaction envelope for a proprietary, fixed-format standard. The system moves the information specified on this screen to either the header envelope identified by the Envelope ID field or its associated trailer envelope.

The location of the fields to be moved and the associated trailer envelope are defined using the User Envelope Specifications screens in Standards Maintenance. If these envelopes are not defined in the User-Envelope file, the envelope generation process fails.

Note: This Sterling Gentran:Structure screen will generate change audit records for Fixed Format Partner Transaction records if Partner Change Audit is enabled. See chapter 7, "Tips and Techniques," in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Change Audit functionality.

How to Access

Access the Transaction Information screen by completing the following steps.

1. On the Partner Maintenance Menu, type `2` to select Partner Maintenance. The system displays the Partner Selection screen.

2. **For Partner/Qualifier Mode:**
   Type a valid Partner ID in the Part ID field and Qualifier in the Qual field.

   OR

   For Relationship Mode:
   Type a valid User in the User field and Partner in the Partner field.

3. Type `4` to select Transaction Directory and press **Enter**. The system displays the Transaction Directory screen.

4. Type `s` in the A (Action Code) field for the selected Transaction ID and press **PF5=Trans**. The system displays the Transaction Information screen.

Screen Examples

The following diagrams illustrate the Transaction Information screen for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
EDIM044 1.2.4.1___        TRANSACTION INFORMATION            XXX   06/01/2011
                                                                    12:00:00


          LAWN VENDOR FOR DEMONSTRATION
Part ID:  LAWNVEND                                  Qual:
Transaction ID:  !!!DFT   Multiple Env Id:

Translation Map ID Inbound..:  __________     Outbound:  __________
Application Databank Inbound:  _  (F/D/N)     Outbound:  _  (F/D/N)

Outbound envelope information for Generic Transaction:
  Envelope ID..:  ___                    Modifier......:  _
  Sender ID....:  _______________        Receiver ID...:  _______________
  Version ID...:  ____________           Reference.....:  ____________________
  Gen Element 1:  ______________________ Gen Element 2.:  ______________________
  Gen Element 3:  ______________________ Gen Element 4.:  _______________
  Gen Element 5:  _______________


Enter PF1=Help            PF3=Exit PF4=TDir      PF5=Name       PF6=Nxt Tran
                       PF9=Add PF10=Updt PF11=Del          PF14=Info
```

Relationship Mode

```
EDIM044 1.2.4.1___        TRANSACTION INFORMATION            XXX   06/01/2011
                                                                    12:00:00


          YOUR COMPANY                          EXAMPLE OF A FIX FORMAT PARTNE
User...:  YOUR COMPANY                          Partner:  LAWNVEND
Transaction ID:  0909__   Multiple Env Id:

Translation Map ID Inbound..:  __________     Outbound:  __________
Application Databank Inbound:  F  (F/D/N)     Outbound:  F  (F/D/N)

Outbound envelope information for Generic Transaction:
  Envelope ID..:  THD                    Modifier......:  _
  Sender ID....:  _______________        Receiver ID...:  _______________
  Version ID...:  ____________           Reference.....:  000000000000000001
  Gen Element 1:  ______________________ Gen Element 2.:  ______________________
  Gen Element 3:  ______________________ Gen Element 4.:  _______________
  Gen Element 5:  _______________


Enter PF1=Help            PF3=Exit PF4=TDir      PF5=Name       PF6=Nxt Tran
                       PF9=Add PF10=Updt PF11=Del          PF14=Info
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

To display a different transaction definition, type a partial or complete Transaction ID in the Transaction ID field, and press **Enter**.

PF4=TDir	Displays the Transaction Directory screen for the selected Partner ID.
PF5=Name	Displays the Name And Address screen for the selected Partner ID.
PF6=Nxt Tran	Displays processing instructions for the next transaction defined for this Partner ID.
PF9=Add	Adds the new transaction definition for the Partner ID displayed. Type the appropriate parameter values and press **PF9=Add**.
PF10=Updt	Updates an existing transaction definition. Type the new data over the existing data and press **PF10=Updt**.
PF11=Del	Deletes the transaction information record for the specified Partner ID. Press **PF11=Del** to delete the data. The system will prompt you to confirm the delete.
PF14=Info	Displays the date, time and user initials on the message line, to indicate when the information on this screen was created or last changed.

Field Descriptions

Note: Fields that are display-only contain the statement (protected) next to the field name in the documentation.

Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10–position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, and then press **Enter**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
(**Partner Name** – protected)	A 35–position alphanumeric field used to display the partner name, as found on the Name and Address record. The partner name can help to further identify the Partner ID.	(**User Name** – protected)	A 35–position alphabetic field displaying the user name, if it exists on file for the User/Partner ID.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
Part ID (protected)	Displays the Partner ID that you have entered or selected. **Note:** The Partner ID and Qualifier make up the key for all associated records.	(**Partner Name**– protected)	A 35–position alphabetic field displaying the partner name, if it exists on file for the User/Partner ID.
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**User/Partner** (protected)	Two 15–position alphabetic fields that display the User/ Partner ID you have entered or selected.

Transaction ID

A 6-position alphanumeric field to define the Transaction ID for the proprietary, fixed-format version for the Partner ID displayed.

Multiple Env Id

A 3–position alphabetic field to identify the envelope type for this interchange record within the partner profile. This field allows a single partner profile to have multiple EDI standards (e.g., X12, EDIFACT, TRADACOMS) defined under it. It eliminates the need to create multiple partner profiles for a single trading partner in the event that the partner uses more than one EDI standard. Valid values include these standards: **ISA**, **ICS**, **BG**, **GS**, **UNA**, **UNB**, **SCH**, **STX**, **GEN**, and spaces.

Translation Map ID Inbound

A 10-position alphanumeric field identifying the specific map for the application to use for this partner and transaction. Used for partner-specific mapping only.

Translation Map ID Outbound

A 10-position alphanumeric field that identifies the specific map for the application to use for this partner and transaction. Used for partner-specific mapping only.

Application Databank Inbound

A 1-position alphabetic field identifying the level of Application Databank to be used. Valid values are:

F = Full
D = Directory-only
N = None

This field is only applicable if used with Global Parameter – ‘Partner Databank.’

Application Databank Outbound

A 1-position alphabetic field identifying the level of Application Databank to be used. Valid values are:

F	=	Full
D	=	Directory-only
N	=	None

This field is only applicable if used with Global Parameter – 'Partner Databank.'

Envelope ID

A 3-position alphanumeric field that defines which generic envelope the system should use when generating the generic transaction. This Envelope ID should be defined using the User Envelope Specifications screens in Standards Maintenance. If this field contains a value, the Outbound Mapping program attempts to generate this envelope and its associated trailer (if one is defined).

Modifier

A 1-position alphanumeric field that will differentiate one Envelope ID from another, if the same Envelope ID was defined multiple times in the user-envelope specifications.

Sender ID

A 15-position alphanumeric field to define your transaction Sender ID.

If the Sender ID field contains data, the system maps it into the header envelope or associated trailer envelope as specified in the Sender ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Receiver ID

A 15-position alphanumeric field to define your trading partner's transaction Receiver ID.

If the Receiver ID field contains data, the data will be mapped into the header envelope or associated trailer envelope as specified in the Receiver ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Version ID

A 12-position alphanumeric field to define the version of the proprietary, fixed-format standard used to process the data sent to this trading partner.

If the Version ID field contains data, it will be mapped into the header envelope or associated trailer envelope as specified in the Version ID Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance.

Reference

An 18-position alphanumeric field to automatically generate the transaction reference number.

If the Reference field contains numeric data, the system increments it by '1' and maps it into the header envelope or associated trailer envelope as specified in the Reference Start and Length fields on the Version/Outbound Specification screen in Standards Maintenance. If this field contains alphanumeric data, the system maps it into the envelope unchanged.

Gen Element 1 (Generic Element 1)
A 20-position field defining what data the system will map to the transaction header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 2 (Generic Element 2)
A 20-position field to define what data the system will map to the transaction header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 3 (Generic Element 3)
A 20-position field to define what data the system will map to the transaction header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 4 (Generic Element 4)
A 15-position field to define what data the system will map to the transaction header or associated trailer into the position defined on the Version/Outbound Specification screen.

Gen Element 5 (Generic Element 5)
A 15-position field to define what data the system will map to the transaction header or associated trailer into the position defined on the Version/Outbound Specification screen.

Reserved Words

The following reserved words can be used in Generic Elements 1 through 5. **These reserved words are only valid in the transaction trailer segments.**

&SEGCNT	The number of segments generated between the transaction header and the transaction trailer. This count does *not* include the transaction header and trailer.
&SEGCNT2	The number of segments generated between the transaction header and the transaction trailer. This count *does* include the transaction header and trailer.

Standards Maintenance Subsystem

Overview

This section describes how the Standards Maintenance subsystem supports Sterling Gentran:Structure.

The Standards Maintenance screens enable you to enter user-defined standards. The following table describes the screens that enable you to define user envelopes.

Screen	Description
User Envelope Specification screen (EDIM190)	Defines and maintains envelope structures for fixed-format standards. Use this screen to add, display or change a user envelope.
Version/Outbound Specification screen (EDIM191)	Defines and maintains envelope version, transaction set, and outbound specification fields for user-defined envelopes.

Handling the Fixed-Format Segment ID

The following rules apply to handling the fixed-format segment ID:

- If the segment ID starts in position 1, you do not need to code a data element for it in the standards.
- If the segment ID starts in a position after the last element of the segment, you do not need to code a data element for it in the standards.
- If the segment ID starts in the middle of a segment, you must code the segment ID as an element in the standards, and map to it via transaction mapping. You should code a constant value that will write every time the segment writes.

In our example of the JASS standards in the Tutorial in chapter 2 of this guide, every EDI segment length is 80 bytes. The last three bytes are reserved for the segment ID. We set up the standards so the last data field would end in position 77. We did not code a specific element to fall in positions 78 – 80. The Mapper automatically puts the segment ID in this position without an element for "segment ID" being coded in the standards.

See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information on the Standards feature.

Standards Maintenance Menu EDIM100

The Standards Maintenance Menu contains menu options that you can use to perform Standards file maintenance online. Use these screens to display, add, and change EDI standards. When you implement Sterling Gentran:Structure, the User Envelope Specification option (option 12) becomes enabled on this screen. Select the User Envelope Specification option to add, display, or change a user envelope.

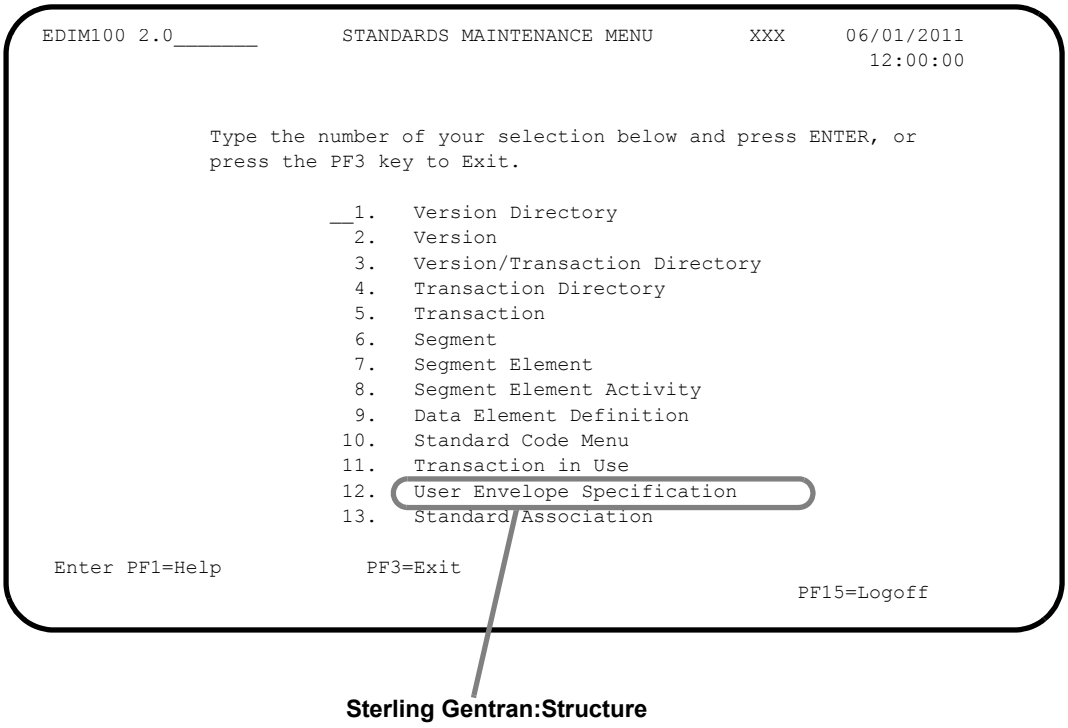
See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for additional information about the Standards Maintenance Menu.

How to Access

Access the Standards Maintenance Menu from the Sterling Gentran Main Menu by typing **2** to select the Standards Maintenance Menu, and pressing **Enter**.

Screen Example

The following diagram illustrates the Standards Maintenance Menu.



Version Screen EDIM110

Purpose

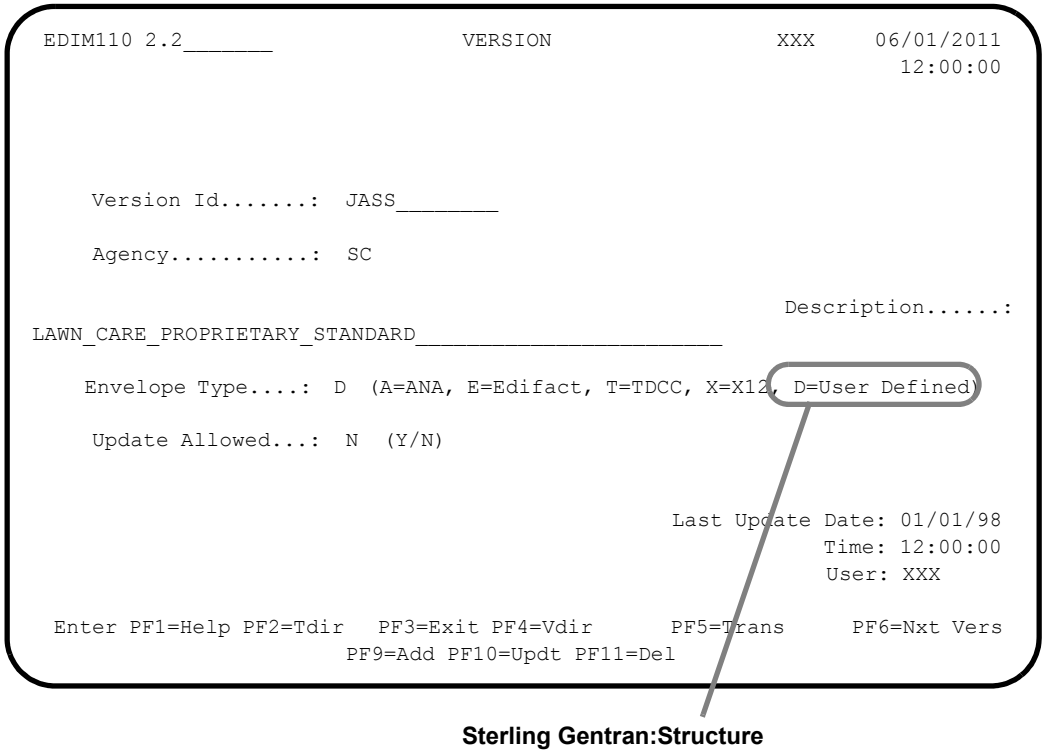
The Version screen displays the highest level of standards maintenance. All standards records are associated with a specific version ID, the definition for which is maintained at this level. This screen enables you to view, change, or delete the definition for the version ID. When you implement Sterling Gentran:Structure, the system makes the envelope type User-Defined available.

How to Access

Access the Version screen by selecting **2**, Version, from the Standards Maintenance Menu and pressing **Enter**.

Screen Example

The following diagram illustrates the Version screen.



Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF2=Tdir Displays the Transaction Directory for the version displayed on the Version screen.

PF4=Vdir Displays the Version Directory beginning with the version displayed on the Version screen.

PF5=Trans	Displays the Transaction screen for the displayed version.
PF6=Nxt Vers	Displays the next consecutive Version record. Versions are displayed in ascending alphanumeric order.
PF9=Add	Creates a new Version record.
PF10=Updt	Updates the current Version record after you have changed information on the Version screen.
PF11=Del	Deletes the current Version record.

Field Descriptions

Note: Fields that are display-only contain the statement (protected) next to the field name in the documentation.

Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10–position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, and type the jump code of the screen to which you want to jump, and then press **Enter**.

See the "Jump Codes" section at the beginning of this chapter for further information on using jump codes.

Version Id (required)

A 12–position alphanumeric field for you to enter the version identification of the standard.

Agency

A 3–position alphabetic field that contains the agency associated with the Version ID.

Description

A 54–position alphanumeric field that contains information about this version.

Envelope Type

A 1–position alphanumeric field to enter the codes for selecting EDI envelope type. Valid values are:

A	=	TRADACOMS
E	=	Edifact
T	=	TDCC
X	=	X12
D	=	User-Defined – This option indicates to the system that a proprietary, fixed-format standard version is defined.

Update Allowed

A 1–position alphabetic field that indicates whether or not this Version record can be updated. Valid values are:

Y = Yes, any records for this version can be updated.

N = No, none of the records for this version can be updated.

Last Update Date (protected)

An 8–position field that displays the date on which this Version record was created or last changed. The date format is **MM/DD/YY**.

Last Update Time (protected)

An 8–position field that displays the time at which this version record was created or last changed. The time format is **HH:MM:SS**.

User (protected)

A 3–position field that displays the initials of the user who created or last changed this Version record.

Data Element Definition Screen EDIM160

Purpose

The Data Element Definition screen allows you to add, display, and change the definition of individual data elements within a segment.

The system displays different values in the Element Type field depending on the version definition. When the Version definition has an envelope type of D, indicating a user-defined standard, the system makes additional data types available. These are the data types that are available for defining application fields and have the same definitions.

How to Access

Access the Data Element Definition screen either of the following ways:

- Type **9** to select Data Element Definition on the Standards Maintenance Menu and press **Enter**.

  OR

- On the Segment Element screen, type an **S** in the A (Action Code) field next to the appropriate element, then press **PF5 =Elem Def**.

Screen Examples

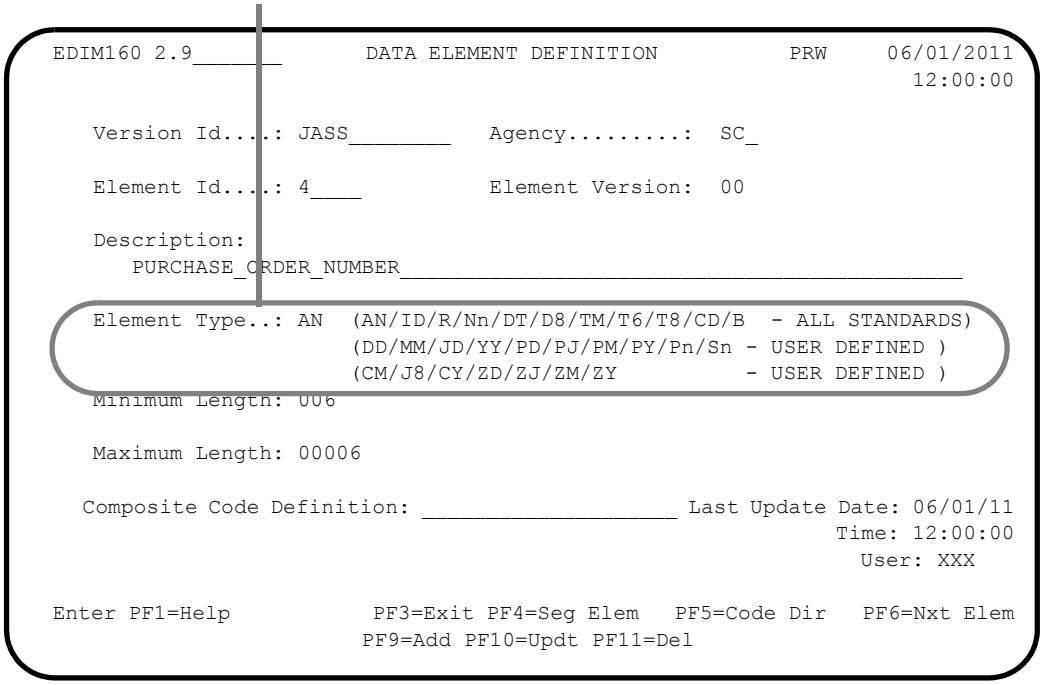
The following diagrams illustrate the Data Element Definition screen both for non-user-defined standards and for user-defined standards.

For Non-User-Defined Standards

```
EDIM160 2.9_______       DATA ELEMENT DEFINITION          PRW     06/01/2011
                                                                    12:00:00

   Version Id....: ____________   Agency.........:  SC_

   Element Id....: _____          Element Version:  __

   Description:
      ____________________________________________________________

   Element Type..: __  (AN/ID/R/Nn/DT/D8/TM/T6/T8/CD/B)


   Minimum Length: ___

   Maximum Length: _____

   Composite Code Definition: _____________________ Last Update Date:
                                                                Time:
                                                                User:
PLEASE ENTER VERSION, AGENCY, ELEMENT ID
Enter PF1=Help            PF3=Exit PF4=Seg Elem   PF5=Code Dir   PF6=Nxt Elem
                       PF9=Add PF10=Updt PF11=Del
```

For User-Defined Standards

Showing User-Defined Element Types



Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF4=Seg Elem Displays the Segment Element screen for this Data Element Definition record.

PF5=Code Dir Displays the Standard Code Directory for the displayed Data Element Definition record. Codes are valid only with element type of AN or ID.

PF6=Nxt Elem Displays the next consecutive Data Element Definition record. The system displays Data Element Definition records in ascending alphanumeric sequence.

Field Descriptions

Element Type

A 2–position alphanumeric field to enter the code for the element type. Valid values are:

AN	=	String type
ID	=	Identifier Type, used with code lists
R	=	Decimal type (data contains explicit decimal point)
Nn	=	Numeric with ‘n’ decimal places implied
DT	=	Date format – YYMMDD or YYYYMMDD
TM	=	Time format – HHMM
CD	=	Date format – DDMMYYYY

D8 = An 8-position Date – YYYYMMDD
T6 = A 6-position Time – HHMMSS
T8 = An 8-position Time – HHMMSShh
B = Binary

The following values are valid only for versions that have been defined with an envelope type of D (indicating a user-defined standard):

Sn = Zoned Decimal
Pn = Packed Decimal
YY = Character Date – YYMMDD
MM = Character Date – MMDDYY
DD = Character Date – DDMMYY
JD = Character Date – YYDDD
PY = Packed Date – YYMMDD
PM = Packed Date – MMDDYY
PD = Packed Date – DDMMYY
PJ = Packed Date – YYDDD
CM = Date format – MMDDYYYY
J8 = Date format – Julian YYYYDDD
CY = Date format – YYYYMMDD
ZD = Date format – Packed DDMMYYYY
ZJ = Date format – Packed YYYYDDD
ZM = Date format – Packed MMDDYYYY
ZY = Date format – Packed YYYYMMDD

Note: For complete field descriptions for this screen, see Chapter 3 in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

User Envelope Specification Screen EDIM190

Purpose

The User Envelope Specification screen enables you to view and maintain definitions for user envelopes. You may also add a new definition and delete an existing definition.

Note: This Sterling Gentran:Structure screen will generate change audit records for Fixed Format Standards User Envelope records if Standards Change Audit is enabled. See chapter 7, "Tips and Techniques," in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Change Audit functionality.

Sterling Gentran:Structure requires the definition of each of the generic envelope structures used for fixed-format standards. The envelope definitions determine the layout of the envelope as follows:

- For outbound processing, the system uses these definitions in conjunction with Partner Maintenance screens where these generic envelopes are referenced. Using information from both of these sources, the Outbound Mapping program generates these envelopes automatically.
- For inbound processing, the system uses these envelope definitions to accurately split fixed-format data from variable-format EDI data. The Inbound Pre-Processing program also uses them to extract trading partner, version, and transaction set information from the fixed-format data. **The system does not perform data extraction for trailer envelopes.**

Note: In addition to the User Envelope Specification screen, you will use the Version/Outbound Specification screen to enter detailed information about each defined envelope.

How to Access

Access this screen by typing `12` to select User Envelope Specification from the Standards Maintenance Menu, and pressing **Enter**.

Screen Example

The following example illustrates the User Envelope Specification screen.

```
Add Delete Update Version/outbound-specification
  EDIM190 2.12______      USER ENVELOPE SPECIFICATION          XXX    06/01/2011
                                                                        12:00:00


  Starting Segment ID..: __________


  A ---Segment-- -Seg  ID- -Env-  -Usr ID-  -Prt ID- -Associated- Ver  Last Updt
       ID    Mod  Start Ln Lvl D  Start Ln  Start Ln Hdr/Trl  Mod Spc  Date User
  _ GBG_______ _  ____1 _3  BG B  _____ __  ____4 15 GEN_______ _  Y  020598 XXX
  _ GEN_______ _  ____1 _3  EG B  _____ __  _____ __ GBG_______ _  Y  020598 XXX
  _ GHD_______ _  ___78 _3  BG B  _____ __  ____1 15 GTR_______ _  Y  020598 XXX
  _ GTR_______ _  ___78 _3  EG B  _____ __  _____ __ GHD_______ _  Y  020598 XXX
  _ IBG_______ _  ____1 _3  BI B  _____ __  ____4 15 IEN_______ _  Y  020598 XXX
  _ IEN_______ _  ____1 _3  EI B  _____ __  _____ __ IBG_______ _  Y  020598 XXX
  _ PHD_______ _  ___78 _3  BI B  _____ __  ____1 15 PTR_______ _  Y  020598 XXX
  _ PTR_______ _  ___78 _3  EI B  _____ __  _____ __ PHD_______ _  Y  020598 XXX
  _ TBG_______ _  ____1 _3  BT B  _____ __  _____ __ TEN_______ _  Y  020598 XXX
  _ TEN_______ _  ____1 _3  ET B  _____ __  _____ __ TBG_______ _  Y  020598 XXX


  Enter PF1=Help            PF3=Exit
        PF7=Bwd  PF8=Fwd
```

Screen Actions

The system displays the screen actions on the top line of the User Envelope Specification screen. The following table describes each screen action function and gives instructions on how to perform those actions.

To perform this action ...	Associated with this screen action ...	Do this ...
Add a user envelope definition record	Add	Type **A** in the A (Action Code) field, type the required data (type over displayed data), and press **Enter**. The system redisplays the screen and displays a confirmation message.
Delete an existing record	Delete	Type **D** in the A (Action Code) field and press **Enter**. The system redisplays the screen and displays a confirmation message.
Update the information for an existing definition	Update	Type **U** in the A (Action Code) field for the specified line, type the changes over the existing data, and press **Enter**. The system re-displays the screen and displays a confirmation message.
Select a record so that you may view the fields associated with Version/ Outbound Specification	Version/ Outbound-Specification	Type **V** in the A (Action Code) field and press **Enter**. The system displays the Version/ Outbound Specification screen.

Note: To display a list of user-envelope specification file records starting at a selected Segment ID, type the value in the Starting Segment ID field and press **Enter**.

Field Descriptions

Starting Segment ID

This field enables you to designate a starting position for the list of user envelopes the system displays on the screen.

A (Action Code)

A 1–position alphabetic field for entering an action to be performed. Valid values are:

A (Add) – Add a User Envelope definition record.

Type **A** in the A (Action Code) field next to the desired record, type the required data (type over displayed values), and press **Enter**.

D (Delete) – Delete an existing record.

Type **D** in the A (Action Code) field next to the desired record and press **Enter**.

U (Update) – Update the information for an existing definition.

Type **U** in the A (Action Code) field next to the desired line, type the changes over the existing data, and press **Enter**.

V (Version/Outbound-Specification) – Displays the Version/Outbound Specification screen so that you may view the fields associated with Version/Outbound Specification.

Type **V** in the A (Action Code) field next to the desired record and press **Enter**.

Segment ID

A 10-position alphanumeric field to define the characters that will identify this envelope. Currently, Standards Maintenance will only support 3-position segment IDs. The system issues the following warning if you type more than three characters:

```
WARNING: SEG IDS > 3 CHAR LONG NOT SUPPORTED
```

Segment Mod

A 1-position alphanumeric field to enable you to enter the same Segment ID multiple times.

Example

You would use this field if the same segment ID defined an envelope in two different standards and each of the envelopes had different characteristics.

Seg ID Start

A 5-position numeric field to define the starting offset of the Segment ID field. Valid values are: **1** – **32760**.

Seg ID Ln

A 2-position numeric field to define the length of the Segment ID field. Valid values are **1** – **3**. Currently, Standards Maintenance only supports segment IDs up to three positions in length.

Env Lvl

A 2-position alphabetic field to define what type of envelope this segment defines. Valid values are:

BI Beginning Interchange
The system generates these envelopes each time the receiver changes during outbound processing.

BG Beginning Group
The system generates these envelopes each time the sender or receiver changes during outbound processing.

BT Beginning Transaction (message)
The system generates these envelopes at the start of each transaction or message during outbound processing.

ET Ending Transaction (message)
The system generates these envelopes at the end of each transaction or message to correspond to a beginning transaction envelope.

EG Ending Group
The system generates these envelopes at the end of a message to correspond to a beginning group envelope. The system generates the envelopes prior to a sender/receiver change or end of file.

EI Ending Interchange
The system generates these envelopes at the end of a message to correspond to a beginning interchange envelope. The system generates the envelopes prior to a receiver change or end of file.

Env D (Direction)

A 1-position alphabetic field to define the type of processing for which the system will use the envelope. The batch processing programs use this information to achieve maximum processing efficiency. Inbound envelopes will be loaded only by the inbound process. Valid values are:

I = Inbound-only processing
O = Outbound-only processing
B = Inbound and outbound processing

Usr ID Start

A 5-position numeric field to define the starting position of the field that contains the User ID information used to access the partner profile. The Inbound Pre-Processing program uses this field to determine the user ID that is needed for processing in relationship mode processing. The User ID Start field is valid only when the Usr ID Ln field contains a value. Valid values are **1** – **32760**.

Usr ID Ln

A 2-position numeric field to define the length of the field that contains the User ID information used to access the partner profile. The Inbound Pre-Processing program uses this field to determine the User ID that is needed for processing in relationship mode. The User ID Ln field is valid only when the Usr ID Start field contains a value. Valid values are **1** – **35**.

Prt ID Start

A 5-position numeric field to define the start of the field that contains the Partner ID information used to access the partner profile. The Inbound Pre-Processing program uses this field to determine the Partner ID that is needed by the Mapping Program. Partner ID Start is valid only when Prt ID Ln also contains a value. Valid values are **1** – **32760**.

Prt ID Ln

A 2-position numeric field to define the length of the field that contains the Partner ID information, which is used to access the partner profile. The Inbound Pre-Processing program uses this field to determine the Partner ID that is needed by the Mapping Program. The Partner ID Ln field is valid only when the Prt ID Start field contains a value. Valid values are **1**–**35**.

Associated Hdr/Trl

A 10-position alphanumeric field to identify the Segment ID of the corresponding header (for trailer type envelopes) or trailer (for header type envelopes). The system uses this field to form a link between corresponding User-Envelope Headers and Trailers. Currently, Standards Maintenance supports only 3-position segment IDs. The system issues a warning if you type more than 3 characters.

Associated Mod

A 1-position alphanumeric field to identify the Segment ID of the corresponding header or trailer envelope, if that corresponding envelope was defined with a modifier.

Example

You would use this field if the same segment ID defined an envelope in two different standards and each of the envelopes had different characteristics.

Ver Spc (Version/Outbound Specification) (protected)

A 1-character alphabetic field to indicate whether envelope fields have been identified for this envelope on the Version/Outbound Specification screen (EDIM191). Valid values are:

Y	=	Version/Outbound Specifications have been defined for this envelope.
N	=	No Version/Outbound Specifications have been defined for this envelope.

Last Date (protected)

Displays the date on which this user envelope specification was last updated.

Updt User (protected)

Displays the initials of the user who made the last update to this user envelope specification.

Version/Outbound Specification Screen EDIM191

Purpose

The Version/Outbound Specification screen enables you to view and maintain more detailed information about each defined envelope, including the Version, Transaction Set, and Outbound Specification fields that you can define for specific user envelopes.

> **Note:** This Sterling Gentran:Structure screen will generate change audit records for Fixed Format Standards User Envelope records if Standards Change Audit is enabled. See chapter 7, "Tips and Techniques," in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Change Audit functionality.

How to Access

Access this screen by typing a **v** in the A (Action Code) field next to the desired record on the User Envelope Specification screen, and pressing **Enter**.

Screen Example

The following diagram illustrates the Version/Outbound Specification screen.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION           PRW  06/01/2011
                                                                    12:00:00


Segment ID...........:  PHD            Modifier:               Length:  ___80
Default Version ID...:  ____________   Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: ___41       _4      Transaction ID.....: _____      __
Sender ID..........: ____1       15      Receiver ID........: ___16      15
Reference Number...: ___51       _9      Generic Element 1..: ___45      _6
Generic Element 2..: _____       __      Generic Element 3..: _____      __
Generic Element 4..: _____       __      Generic Element 5..: _____      __
Generic Element 6..: _____       __      Generic Element 7..: _____      __
Generic Element 8..: _____       __      Generic Element 9..: _____      __
Generic Element 10.: _____       __      Current Date.......: ___31      _6
Current Time.......: ___37       _4      Current Date Format: YY
                       Last Update Date: 06/01/11 Time: 12:00:00 User: XXX

Enter PF1=Help           PF3=Exit PF4=User                    PF6=Nxt Env
```

Function Key Descriptions:

> **Note:** Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

Enter	Re-displays the User Envelope Version/Outbound information that is currently contained on the file. Using this key cancels any updates that might have been entered on the screen prior to **PF10=Updt** being pressed.
PF3=Exit	Returns to the previous menu.
PF4=User	Returns to the User-Envelope Specification screen.
PF6=Nxt Env	Displays the next logical User Envelope record on the file.
PF10=Updt	Updates the fields on this screen. Type the changes over the existing data and press **PF10=Updt**. The system re-displays the screen with the updated information, and displays a confirmation message.

Field Descriptions

Segment ID (protected)
Displays the characters that identify the segment ID of the envelope that is processed.

Modifier (protected)
Displays the Segment ID modifier of the envelope that is processed.

Length
A 5-position numeric field that defines the length of the envelope record. The default is 80. Valid values are **1** – **2000**.

Default Version ID
A 12-position alphanumeric field to define what standard version the system should use for processing purposes when this user envelope is received. This field is is intended to be used for proprietary, fixed-format standards, where the version is not specified on the envelope. The Inbound Pre-Processing program uses this field for version determination. It will not be used by the outbound process.

Default Agency
A 3-position alphanumeric field to define what agency the system should use.

Default Transaction ID
A 6-position alphanumeric field to define what transaction set the system should use for processing purposes when this user envelope is received. This field is intended to be used for proprietary, fixed-format standards where the transaction set is not specified on the envelope. The Inbound Pre-Processing program uses this field for transaction determination. It will not be used by the outbound process.

Version ID Start
A 5-position numeric field to define the starting position in the envelope of the field that contains the standard version. The system uses this field to extract a version during inbound processing and to load a version for outbound processing. The Version ID Start field is valid only when the Version ID Length field also contains a value. Valid values are **1** – **2000**.

Version ID Length
A 2-position numeric field to define the length of the field that contains the standard version. The system uses this field to extract a version during inbound processing and to load a version for outbound processing. The Version ID Length field is only valid when the Version ID Start field contains a value. Valid values are **1** – **12**.

Transaction ID Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the transaction set ID. The system uses this field to extract a transaction set ID during inbound processing and to load a transaction set ID for outbound processing. The Transaction Set ID Start field is valid only when Transaction Set ID Length field also contains a value. Valid values are **1** – **2000**.

Transaction ID Length

A 2-position numeric field to define the length of the field that contains the transaction set ID. The system uses this field to extract a transaction set ID during inbound processing and to load a transaction set ID for outbound processing. The Transaction Set ID Length field is valid only when the Transaction Set ID Start field contains a value. Valid values are **1** – **6.**

Sender ID Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the sender ID. The system uses this field to extract the sender ID during inbound processing. The reserved word constants GEN-INT-SNDR, GEN-GRP-SNDR, and GEN-TRN-SNDR will contain the resolved Partner ID of the sender. The system also uses the field to load the sender ID specified on the partner profile (using the generic envelope screens) for outbound processing. The Sender ID Start field is valid only when Sender ID Length field also contains a value. Valid values are **1** – **2000**.

Sender ID Length

A 2-position numeric field to define the length of the field that contains the sender ID. The system uses this field to extract the sender ID during inbound processing. The reserved word constant GEN-INT-SNDR, GEN-GRP-SNDR, and GEN-TRN-SNDR will contain the resolved Partner ID of the sender. The system also uses the field to load the sender ID specified on the partner profile (using the generic envelope screens) for outbound processing. The Sender ID Length field is valid only when the Sender ID Start field contains a value. Valid values are **1** – **15**.

Receiver ID Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the receiver ID. The system uses this field to extract the receiver ID during inbound processing. The reserved word constant GEN-INT-RCVR, GEN-GRP-RCVR, and GEN-TRN-RCVR will contain the resolved partner ID of the receiver. The system also uses the field to load the receiver ID specified on the partner profile (using the generic envelope screens) for outbound processing. The Receiver ID Start field is valid only when Receiver ID Length field also contains a value. Valid values are **1 – 2000**.

Receiver ID Length

A 2-position numeric field to define the length of the field that contains the receiver ID. The system uses this field to extract the receiver ID during inbound processing. The reserved word constants GEN-INT-RCVR, GEN-GRP-RCVR, and GEN-TRN-RCVR will contain the resolved partner ID of the receiver. The system uses it to load the receiver ID specified on the partner profile (using the generic envelope screens) for outbound processing. The Receiver ID Length field is valid only when the Receiver ID Start field contains a value. Valid values are **1** – **15**.

Reference Number ID Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the reference number. This number is also called the control number. The system uses this field to extract the reference number during inbound processing (the reference number will be available for mapping in the reserved word constants GEN-INT-REF, GEN-GRP-REF, and GEN-TRN-REF depending upon the envelope level). The system also uses it to load the reference number specified on the partner profile (using the generic envelope screens) for outbound processing. The Reference Number Start field is valid only when Reference Number Length field also contains a value. Valid values are **1** – **2000**.

Reference Number Length

A 2-position numeric field to define the length of the field that contains the reference number. This number is also called the control number. The system uses this field to extract the reference number during inbound processing (the reference number will be available for mapping in the reserved word constants GEN-INT-REF, GEN-GRP-REF, and GEN-TRN-REF depending upon the envelope level). The system also uses it to load the reference number specified on the partner profile (using the generic envelope screens) for outbound processing. The Reference Number Length field is valid only when the Reference Number Start field contains a value. Valid values are **1** – **18**.

Generic Element 1 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 1 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 1 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-ELEMENT-01). The system also uses it to load the Generic Element 1 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 1 Start field is only valid when the Generic Element 1 Length field also contains a value. Valid values are **1** – **2000**. This field is valid for all envelope types.

Generic Element 1 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 1 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP/TRN)-ELEMENT-01). The system also uses it to load the Generic Element 1 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 1 Length field is valid only when the Generic Element 1 Start field contains a value. Valid values are **1** – **20**. This field is valid for all envelope types.

Generic Element 2 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 2 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 2 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP/TRN)-ELEMENT-02). The system also uses it to load the Generic Element 2 data specified on the partner profile

(using the generic envelope screens) for outbound processing. The Generic Element 2 Start field is valid only when Generic Element 2 Length field also contains a value. Valid values are **1** – **2000**. This field is valid for all envelope types.

Generic Element 2 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 2 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP/TRN)-ELEMENT-02). The system also uses it to load the Generic Element 2 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 2 Length field is valid only when the Generic Element 2 Start field contains a value. Valid values are **1** – **20**. This field is valid for all envelope types.

Generic Element 3 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 3 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 3 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP/TRN)-ELEMENT-03). The system also uses it to load the Generic Element 3 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 3 Start field is valid only when Generic Element 3 Length field also contains a value. Valid values are **1** – **2000**. This field is valid for all envelope types.

Generic Element 3 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 3 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP/TRN)-ELEMENT-03). The system also uses it to load the Generic Element 3 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 3 Length field is valid only when the Generic Element 3 Start field contains a value. Valid values are **1** – **20**. This field is valid for all envelope types.

Generic Element 4 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 4 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 4 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP/TRN)-ELEMENT-04). The system also uses it to load the Generic Element 4 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 4 Start field is valid only when Generic Element 4 Length field also contains a value. Valid values are **1** – **2000**. This field is valid for all envelope types.

Generic Element 4 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic

envelopes. The system uses this field to extract the Generic Element 4 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-04). The system also uses it to load the Generic Element 4 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 4 Length field is valid only when the Generic Element 4 Start field contains a value. Valid values are **1** – **20**. This field is valid for all envelope types.

Generic Element 5 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 5 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 5 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-05). The system also uses it to load the Generic Element 5 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 5 Start field is valid only when Generic Element 5 Length field also contains a value. Valid values are **1** – **2000**. This field is valid for all envelope types.

Generic Element 5 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 5 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-05). The system also uses it to load the Generic Element 5 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 5 Length field is valid only when the Generic Element 5 Start field contains a value. Valid values are **1** – **20**. This field is valid for all envelope types.

Generic Element 6 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 6 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 6 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-06). The system also uses it to load the Generic Element 6 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 6 Start field is valid only when Generic Element 6 Length field also contains a value. Valid values are **1** – **2000**. The system does not use this field to load outbound transaction level envelopes.

Generic Element 6 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 6 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-06). The system also uses it to load the Generic Element 6 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 6 Length field is valid only when the Generic Element 6

Start field contains a value. Valid values are **1** – **20**. The system will not use this field to load outbound transaction level envelopes.

Generic Element 7 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 7 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 7 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-07). The system also uses it to load the Generic Element 7 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 7 Start field is valid only when Generic Element 7 Length field also contains a value. Valid values are **1** – **2000**. The system will not use this field to load outbound transaction level envelopes.

Generic Element 7 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 7 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-07). The system also uses it to load the Generic Element 7 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 7 Length field is valid only when the Generic Element 7 Start field contains a value. Valid values are **1** – **20**. The system will not use this field to load outbound transaction level envelopes.

Generic Element 8 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 8 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 8 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-08). The system also uses it to load the Generic Element 8 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 8 Start field is valid only when Generic Element 8 Length field also contains a value. Valid values are **1** – **2000**. The system will not use this field to load outbound transaction level envelopes.

Generic Element 8 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 8 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-08). The system also uses it to load the Generic Element 8 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 8 Length field is valid only when the Generic Element 8 Start field contains a value. Valid values are **1** – **20**. The system will not use this field to load outbound transaction level envelopes.

Generic Element 9 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 9 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract

the Generic Element 9 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-(INT/GRP)-ELEMENT-09). The system also uses it to load the Generic Element 9 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 9 Start field is valid only when Generic Element 9 Length field also contains a value. Valid values are **1** – **2000**. The system will not use this field to load outbound transaction level envelopes.

Generic Element 9 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the generic element 9 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-INT-ELEMENT-09). The system also uses it to load the Generic Element 9 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 9 Length field is valid only when the Generic Element 9 Start field contains a value. Valid values are **1** – **20**. The system will not use this field to load outbound transaction or group level envelopes.

Generic Element 10 Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the Generic Element 10 information. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the generic element 10 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-INT-ELEMENT-10). The system also uses it to load the Generic Element 10 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 10 Start field is valid only when Generic Element 10 Length field also contains a value. Valid values are **1** – **2000**. The system will not use this field to load outbound transaction or group level envelopes.

Generic Element 10 Length

A 2-position numeric field to define the length of the field that contains the reference number. Defining the generic elements allows mapping to and from fields in the generic envelopes. The system uses this field to extract the Generic Element 10 data during inbound processing (the data will be available for mapping in the reserved word constant GEN-INT-ELEMENT-10). The system also uses it to load the Generic Element 10 data specified on the partner profile (using the generic envelope screens) for outbound processing. The Generic Element 10 Length field is valid only when the Generic Element 10 Start field contains a value. Valid values are **1** – **20**. The system will not use this field to load outbound transaction or group level envelopes.

Current Date Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the current date. The system maps the current date to the outbound envelope in CCYYMMDD format or YYMMDD format depending upon the length specified below. The system uses this field only during outbound processing. The Current Date Start field is valid only when the Current Date Length field also contains a value. Valid values are **1** – **2000**.

Current Date Length

A 2-position numeric field to define the length of the field that contains the current date. The system uses this field only during outbound processing. The Current Date Length field is valid only when Current Date Start field also contains a value. Valid values are:

6	=	System will map the current date to the outbound envelope in YYMMDD format.
8	=	System will map the current date to the outbound envelope in CCYYMMDD format.

Current Time Start

A 5-position numeric field to define the starting position in the envelope of the field that contains the current time. The system maps the current time to the outbound envelope in HHMMSS format or HHMM format depending upon the length specified below. The system uses this field only during outbound processing. The Current Time Start field is valid only when the Current Time Length field also contains a value. Valid values are **1 – 2000**.

Current Time Length

A 2-position numeric field to define the length of the field that contains the current time. The system uses this field only during outbound processing. The Current Time Length field is valid only when the Current Time Start field also contains a value. Valid values are:

6	=	The system will map the current time to the outbound envelope in HHMMSS format.
4	=	The system will map the current time to the outbound envelope in HHMM format.

Current Date Format

A 2-position alphanumeric field to define the format of the current date. The system uses this field only during outbound processing and it is valid only when the Current Date Start field contains a value. Valid values are:

MM	=	Current date will be in MMDDYY format.
DD	=	Current date will be in DDMMYY format.
YY	=	Current date will be in: YYMMDD format (if length is 6) YYYYMMDD format (if length is 8).

Last Update (protected)

Displays the date of the last update of the envelope definition. Format is **MM/DD/YY**.

Time (protected)

Displays the time of the last update of the envelope definition. Format is **HH:MM:SS**.

User (protected)

Displays the initials of the last user to update the envelope definition.

Mapping Integration Subsystem

Overview

This section describes how the Mapping Integration subsystem supports Sterling Gentran:Structure.

Specifically, two mapping screens and the Transaction Maintenance – Sterling Gentran:Structure screen (EDIM516) allow the definition of fixed-format maps.

Fixed-Format Segment ID

The following rules apply to handling the fixed-format segment ID:

- If the segment ID starts in position 1, you do not need to code a data element for it in the standards.
- If the segment ID starts in a position after the last element of the segment, you do not need to code a data element for it in the standards.
- If the segment ID starts in the middle of a segment, you must code the segment ID as an element in the standards and map to it via transaction mapping. You should code a constant value that will write every time the segment writes.

In our example of the JASS standards in the Tutorial chapter of this guide, every EDI segment length is 80 bytes. The last three bytes are reserved for the segment ID. We set up the standards so the last data field would end in position 77. We did not code a specific element to fall in positions 78 – 80. The mapper automatically puts the segment ID in this position without an element for segment ID being coded in the standards.

See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information concerning the Mapping feature.

Transaction Maintenance Screen EDIM503

Purpose

The Transaction Maintenance screen enables you to define and maintain the transaction map header information. The header information identifies the transaction map, establishes the EDI standard version being used, identifies the transaction set, lists the transaction status/use code/ envelope type, and identifies the internal Application Data ID being translated to or from. You can only view, add, update, or delete those maps having a division code equal to your own, unless your Logon ID is defined with a division of "000."

> **Note:** You cannot move to another screen or directory, or view, add, update, or delete a map whose division is not equal to your own, unless your division code is "000."

How to Access

You can access the Transaction Maintenance screen in any of these three ways:

- Type **2** to select Transaction Maintenance from the Transaction Mapping Menu, type **S** in the **A** (Action Code) field on the Transaction Mapping Directory screen, and press **PF5=Trans**.
- Type **5.2.2** in the jump code field.
- Select a transaction ID from the Transaction Mapping Directory and press **PF5**.

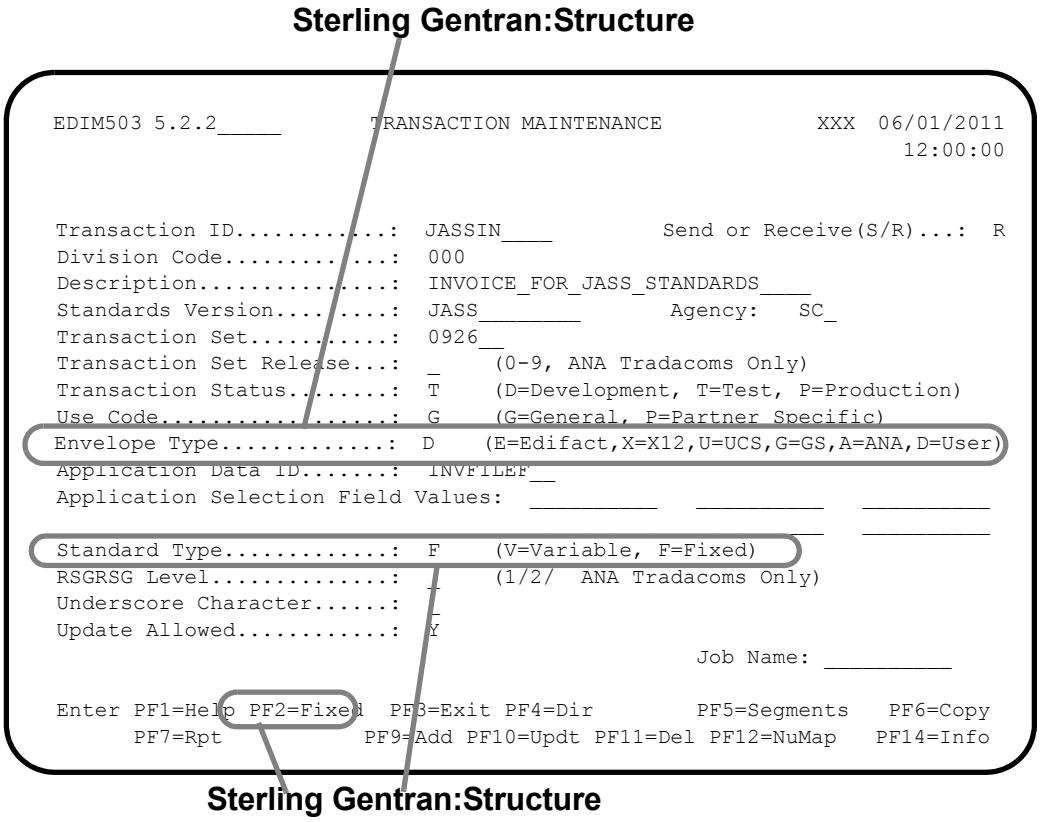
Screen Example (Sterling Gentran:Structure Not Installed)

The following illustrates the Transaction Maintenance screen when Sterling Gentran:Structure is not installed.

```
EDIM503 5.2.2_____        TRANSACTION MAINTENANCE             XXX  06/01/2011
                                                                      12:00:00


Transaction ID.............:  ANSI3030PO         Send or Receive(S/R)...:  S
Division Code..............:  000
Description................:  ANSI_003030_OUTBOUND_POS______
Standards Version..........:  003030______       Agency:   X__
Transaction Set............:  850___
Transaction Set Release...:  _    (0-9, ANA Tradacoms Only)
Transaction Status.........:  P    (D=Development, T=Test, P=Production)
Use Code...................:  G    (G=General, P=Partner Specific)
Envelope Type..............:  X    (E=Edifact,X=X12,U=UCS,G=GS,A=ANA)
Application Data ID.......:  POFILE____
Application Selection Field Values:  __________   __________   __________
                                     __________   __________   __________

RSGRSG Level..............:  _    (1/2/  ANA Tradacoms Only)
Underscore Character......:  _
Update Allowed............:  Y
                                                  Job Name: __________

Enter PF1=Help            PF3=Exit PF4=Dir        PF5=Segments   PF6=Copy
      PF7=Rpt           PF9=Add PF10=Updt PF11=Del           PF14=Info
```

Screen Example (Sterling Gentran:Structure Installed)

The following diagram illustrates the Transaction Maintenance screen with Sterling Gentran:Structure installed.



Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

To view an existing transaction map header definition, type the transaction ID and corresponding send or receive code, and press **Enter**.

PF2=Fixed Displays the Transaction Maintenance — Fixed Format screen (only if Sterling Gentran:Structure has been installed on your system). This screen enables you to update the fields associated with fixed standard support at the transaction level.

PF4=Dir Returns to the Transaction Directory.

PF5=Segments Advances to the Segments screen. This screen lists each segment defined in the transaction map specified.

PF6=Copy Advances to the Copy Transaction screen. This screen allows you to choose the source from which the transaction map may be built. The transaction map definition may be copied and duplicated from an existing transaction map, or segments may be copied from a specified EDI standard version.

PF7=Rpt Allows you to submit the batch Mapping Reports for the transaction map displayed at the top of the screen.

Note: Both the Standard and Application Sequence Reports are generated.

PF9=Add To add a new transaction map header definition, type the required data (you can type over displayed data), and press **PF9**. The system re-displays the screen with the added transaction map header definition.

PF10=Updt To update the information for an existing transaction map header definition, type the changes over the existing data, and press **PF10**. The system re-displays the screen with the changes.

PF11=Del To delete an existing transaction map header definition and all of its associated segments and elements, press **PF11**. The system displays a message prompting you to confirm the deletion.

PF14=Info Displays the date, time and user initials on the message line, to indicate when the information on this screen was created or last changed.

Field Descriptions

Note: Fields that are display-only contain the statement (protected) next to the field name in the documentation.

Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10–position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, and then press **Enter**.

Transaction ID (required)

A 10–position alphanumeric field used to name the transaction map being modified.

Send or Receive (S/R) (required)

A 1–position alphabetic field defining the send or receive code associated with the transaction ID. This code designates whether the transaction map is used to send data (outbound) or receive data (inbound). Valid values are **S** (send) – used for outbound data, and **R** (receive) – used for inbound data.

Division Code (required)

A 3–position alphanumeric field used to define your user–specific division code. This division code must match the assigned division code for the user, as specified in the Security file, unless the division code for the user is 000.

Description (required)

A 30–position alphanumeric field containing a description of the transaction map. The description provides additional information about the transaction map.

Standards Version (required)
A 12–position alphanumeric field that contains the version ID of the standard for this map.

Agency (required)
A 3–position alphabetic field that contains the agency associated with the version ID.

Transaction Set (required)
A 6–position alphanumeric field that contains the standards transaction set ID associated with this transaction map.

Transaction Set Release (ANA TRADACOMS version only)
A 1–position numeric field that indicates the release number for the Transaction Set ID.

Transaction Status (required)
A 1–position alphabetic field that indicates the status of the transaction map. Valid values are:

D	=	Map is in development.
T	=	Map is in testing process.
P	=	Map is in production status.

Use Code (required)
A 1–position alphabetic field that indicates whether transaction map may be used for general transaction purposes or is used only for translation for particular trading partners. Valid values are:

G	=	General – Map may be used with any trading partner
P	=	Partner – Map name specified on the partner file.

Envelope Type (required)
A 1–position alphabetic field that indicates the interchange envelope category to which this transaction map belongs. Valid values are:

E	=	EDIFACT
X	=	ASC X12
U	=	UCS
G	=	GS
A	=	ANA TRADACOMS
D	=	User defined (Sterling Gentran:Structure)

Application Data ID (required)
A 10–position alphanumeric field that contains the application data ID associated with this transaction map.

Application Selection Field Values
A set of six 10–position alphanumeric fields that may be used to define values for the application selection field, which results in the selection of this transaction map, if found in the application file. If any value is placed in any of the six Application Selection fields then all size values are used. Therefore, the last application selection value in the table of six should be repeated through all empty slots to avoid making blank spaces a valid application selection code.

Standard Type (required)

A 1–position alphanumeric field defining whether the Transaction map is associated with a fixed or variable standard. Valid values are:

F	=	Fixed format – Non-delimited (Requires Sterling Gentran:Structure)
V	=	Variable – Delimited EDI standards

Note: This field is not related to the application field type of fixed or variable.

RSGRSG Level (ANA TRADACOMS only)

A 1–position numeric field indicating the release of RSGRSG reconciliation message to use for this transaction map.

Underscore Character

A 1-position alphabetic field that contains the underscore substitution character that will be used in place of the actual underscore (_) on the screen display of selected fields for this transaction ID. Valid values are: ~ , ! , @ , # , $, % , ¬ , & , * , (,), - , = , + , { , } , : , ; , < , > , / , ? , | , \ , and space.

See the topic "Using Underscore Substitution Characters" in Chapter 7 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about this feature.

Update Allowed

A 1–position alphabetic field that indicates whether any records for this Transaction ID can be updated by any user. Valid values are:

Y	=	Yes, transaction map can be updated.
N	=	No, transaction map cannot be updated.

Job Name

An 8-position alphanumeric field used to designate a user-specified job name when printing a report using the **PF7** key. Valid values are any valid job name.

To select reports for printing, type the user-specified job name in the **`Job Name`** field and press **PF7**. If you do not type a value in the field, the system uses a default value, which was defined during installation customization of the JCL (**EDIRJCL**) file.

Transaction Maintenance – Sterling Gentran:Structure Screen EDIM516

Purpose

The Transaction Maintenance – Sterling Gentran:Structure screen enables you to view and maintain the segment start and length information necessary for fixed-format mapping.

> **Note:** This Sterling Gentran:Structure screen will generate change audit records for Fixed Format Transaction header records if Mapping Transaction Change Audit is enabled. See chapter 7, "Tips and Techniques," in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Change Audit functionality.

How to Access

Access this screen from the Transaction Maintenance screen by pressing **PF2=Fixed**.

Screen Example

The following diagram illustrates the Transaction Maintenance – Sterling Gentran:Structure screen.

```
EDIM516 __________ TRANSACTION MAINTENANCE                    XXX  06/01/2011
                     (Gentran:Structure)                            12:00:00


Transaction ID.............:  JASSIN             S/R.......:  R
Division Code..............:  000
Description................:  INVOICE FOR JASS STANDARDS
Standards Version..........:  JASS               Agency....:  SC
Transaction Set............:  0926
Transaction Set Release...:            (0-9, ANA Tradacoms Only)

Envelope Format............:  F         (V=Variable, F=Fixed)
Segment ID Start...........:  ___78     (1 to 32743)
Segment ID Length..........:  _3        (1 to 10)

Last Update Date...........: 06/01/11
            Time...........: 12:00:00
            User...........: XXX



Enter PF1=Help            PF3=Exit PF4=Maint      PF5=Segments
                                PF10=Updt
```

Function Key Descriptions

> **Note:** Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

Enter	Re-displays the screen.
PF3=Exit	Returns to the previous menu.

PF4=Maint	Returns to the Transaction Maintenance screen.
PF5=Segments	Advances to the Segments screen that lists each segment defined in the transaction map specified.
PF10=Updt	Updates an existing transaction ID. Change the desired fields and press **PF10=Updt**.

Field Descriptions

Transaction ID (protected)
Displays a transaction map.

S/R (Send or Receive) (protected)
Displays the send or receive code associated with the transaction map ID. This code designates whether the Transaction map is used to send data (outbound) or receive data (inbound). Valid values are:

S = Send data
R = Receive data

Division Code (protected)
Displays your user-specified division code. The transaction division code must match the user's assigned division code, as specified in the Security file, unless the user's division code is 000.

Description (protected)
Displays the transaction file description. The description provides additional text to describe the transaction map.

Standards Version (protected)
Displays the name of a particular version of an EDI standard to be used with this transaction map. A standards version table entry exists for the version entered in this field.

Agency (protected)
A 3–position alphabetic field that contains the agency associated with the Version ID.

Transaction Set (protected)
Displays the standards version of the transaction set associated with your internal application data ID. The transaction set identifies an EDI transaction (e.g., 850 identifies ASCX12 purchase orders). The transaction set and standards version combination exist in the Standards Table.

Transaction Set Release (protected)
Displays the release number of the standards version transaction set associated with your internal application data ID. Valid values are **0** – **9**. This field is for ANA TRADACOMS only.

Envelope Format (protected)
A 1-position alphabetic field to indicate whether the system should write non-user envelopes (e.g., 'ISA') as variable or fixed segments. Fixed segments have fixed-length elements with no delimiters or terminators. The system writes all user-defined envelopes as fixed segments. The system automatically sets this field to F when the Envelope Type value is D (user-defined). Valid values are

F = Fixed segment
V = Variable segment

Segment ID Start (required for fixed-format envelope)
A 5-position numeric field to define the start of the field that contains the segment ID for user-defined envelopes. Valid values are **1** – **32760**. The sum of the segment ID Start and Length fields cannot exceed 32761.

Segment ID Length (required for fixed-format envelope)
A 2-position numeric field to define the length of the field that contains the segment ID for user-defined envelopes. Valid values are **1** – **3.** The sum of the segment ID Start and Length fields cannot exceed 32761.

Note: Sterling Gentran:Basic Standards Maintenance supports segment ID lengths of up to three characters only.

Last Update Date (Protected)
An 8-position field that displays the date on which the information on this screen was created or last changed. The date format is MM/DD/YY.

Last Update Time (Protected)
An 8-position field that displays the time at which the information on this screen was created or last changed. The time format is HH:MM:SS.

Last Update User (Protected)
A 3-position field that displays the initials of the user who created or last changed the information on this screen.

Application Data ID Screen EDIM552

Purpose

The Application Data ID screen enables you to display and change the contents of an existing application data ID, add a new application data ID, or delete an existing one. The delete function allows you to delete the application data ID along with all associated records and fields.

How to Access

Access the Application Data ID screen either of the following two ways.

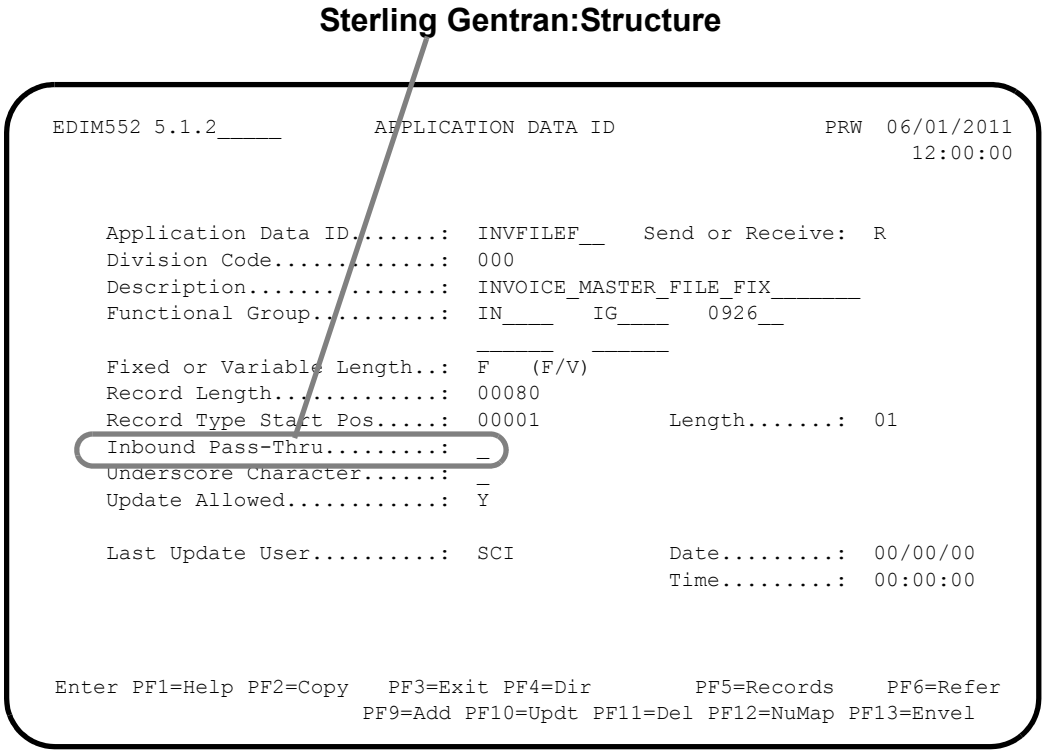
- Type **2** to select Application Data ID from the Application Definition Menu.

  OR

- Type an **S** in the A (Action Code) field on the Application Directory screen to select a specific application for processing, and press **PF5=Data Id**.

Screen Example

The following diagram illustrates the Application Data ID screen.



Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

To display header information for an application data ID, type the application data ID and the corresponding send or receive code, and press **Enter**.

PF2=Copy	Advances to the Copy Application Definition screen, where you can create new application records and field definitions by copying them from an existing application.
PF4=Dir	Returns to the Application Directory Menu, where the system displays the application data IDs starting with the one displayed on this screen.
PF5=Records	Advances to the Application Records screen. This screen lists each record found in the application definition.
PF6=Refer	Displays the Application Partner Reference screen. This screen allows you to define user, partner, and application key fields.
PF9=Add	Adds a new application data ID, if it does not already exist.
PF10=Updt	Updates an existing application data ID.
PF11=Del	Deletes an application data ID **AND ALL** associated records and fields.
PF13=Envel	Displays the Application Envelope Definition screen. This screen is used to define application fields that are mapped directly to the EDI envelope data elements (outbound only).

Field Descriptions

For complete screen information, see the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*. This section only describes the field on this screen that is specific to Sterling Gentran:Structure functionality.

Inbound Pass-Thru

This field is used for inbound application definitions only. Valid values are:

Y = Yes
N = No

If you type a Y value, inbound mapping performs the following tasks:

- Examines the input file, from either the Inbound Editor (variable standards) or the Inbound Pre-Processing program (fixed standards).
- Removes the 15-byte key that is present on the front of each record.
- Eliminates the ###MAP, ###MP2, ###MP3, ###MP4, and ###MP5, and ###MP6 records.

The rest of the file is written unchanged.

This field option is intended for users with existing applications for processing the data in the format that it is in as it is passed to the Inbound Mapping program, but who want to use the functionality of the Sterling Gentran:Basic Databank subsystem.

Databank Maintenance Subsystem

Overview

This section describes how the Databank Maintenance subsystem supports Sterling Gentran:Structure.

The majority of system changes enable you to view Sterling Gentran:Structure documents from Sterling Gentran:Realtime or Sterling Gentran:Basic databanks.

Document Access

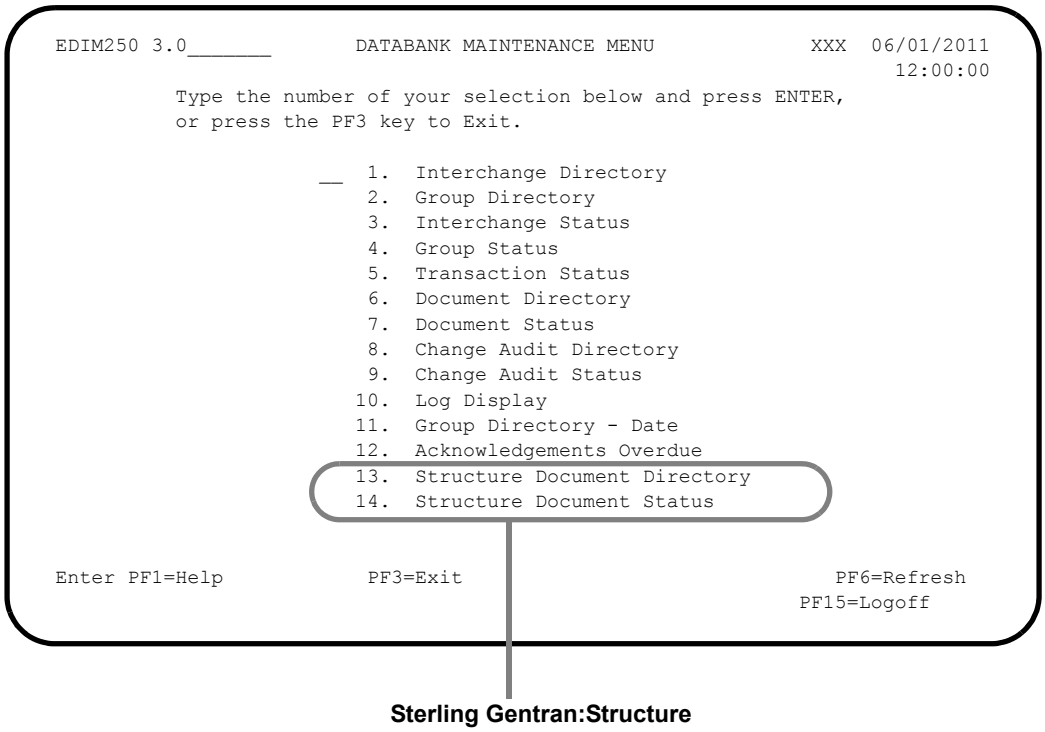
Once Sterling Gentran:Structure is installed, the system displays two options – 13 and 14 respectively – on the Databank Maintenance Main Menu. These options represent the following programs:

- Sterling Gentran:Structure Document Directory (EDIM272)
- Sterling Gentran:Structure Document Status (EDIM273)

Databank Maintenance Screen Example

The following example illustrates the Databank Maintenance Menu screen (EDIM250) after Sterling Gentran:Structure is installed.

See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Databank Maintenance screen.



Sterling Gentran:Structure

Sterling Gentran:Structure Document Directory Screen EDIM272

Purpose

The Sterling Gentran:Structure Document Directory screen displays a list of partner IDs corresponding to application documents on the databank. Each entry displayed on the list indicates whether the document is inbound or outbound. From this screen, you can display document status information for a partner ID's documents.

How to Access

Access the Sterling Gentran:Structure Document Directory screen in either of these two ways:

- Type **13** to select Sterling Gentran:Structure Document Directory from the Databank Maintenance Menu.

  OR

- Type **3.13** in the jump code field.

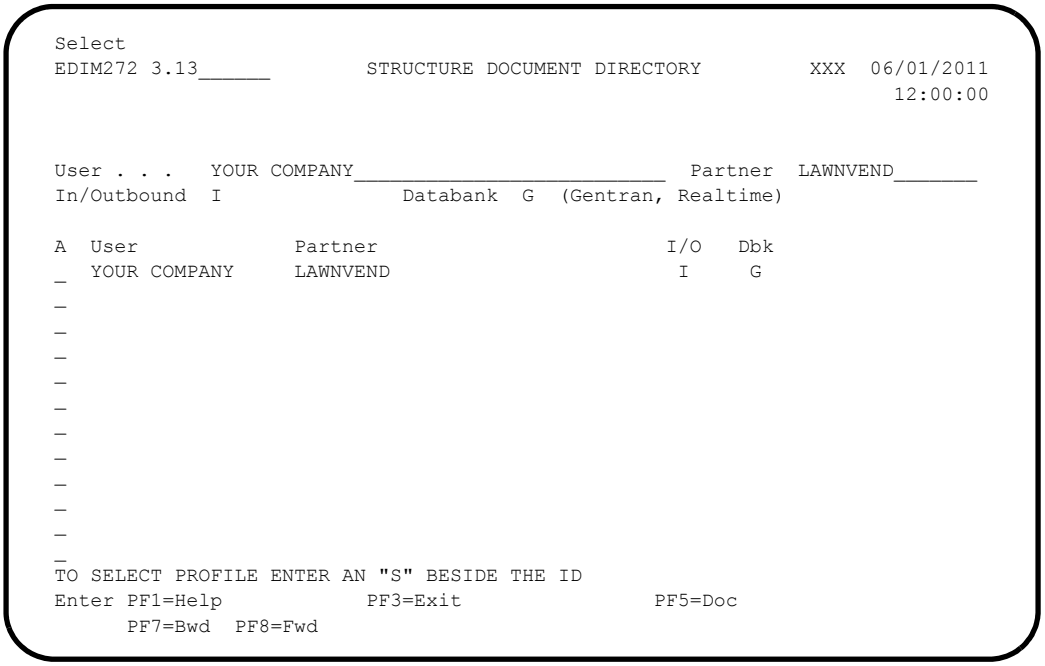
Screen Example

The following diagrams illustrate the Sterling Gentran:Structure Document Directory screen for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
Select
EDIM272 3.13______        STRUCTURE DOCUMENT DIRECTORY         XXX  06/01/2011
                                                                      12:00:00


Partner ID   ________________________________      Qual  ________________
In/Outbound  _                Databank  G  (Gentran, Realtime)

A  Partner                                Qual       I/O   Dbk
_  LAWNVEND                                           I     G
_  LAWNVEND                                           O     G
_
_
_
_
_
_
_
_
_
_
TO SELECT PROFILE ENTER AN "S" BESIDE THE ID
Enter PF1=Help                  PF3=Exit                PF5=Doc
      PF7=Bwd  PF8=Fwd
```

Relationship Mode



Screen Actions

The system displays the screen actions on the top line of the Sterling Gentran:Structure Document Directory screen. The following table describes the screen action function for this screen and gives instructions on how to perform the action.

To perform this action ...	Associated with this screen action ...	Do this ...
View the Sterling Gentran:Structure Document Status screen for the Partner ID selected on the Sterling Gentran:Structure Document Directory screen	Select	Type **s** in the A (Action Code) field next the selected Partner ID and press **PF5**.

Function Key Description

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF5=Doc Displays the Sterling Gentran:Structure Document Status screen.

Field Descriptions

Note: Display-only fields contain the statement (protected) next to the field name in the documentation.

Note: Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To jump to another screen, press **Home**, type the jump code of the screen to which you want to jump, and press **Enter**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
Partner ID (protected)	Displays the Partner ID that you have entered or selected. **Note:** The Partner ID and Qualifier make up the key for all associated records.	**User** (protected)	A 15–position alphabetic field displaying the User ID you have entered or selected.
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**Partner** (protected)	A 15–position alphabetic field that displays the Partner ID you have entered or selected.

In/Outbound

A 1-character alphabetic field to restrict the list to either inbound documents or outbound documents. If the field contains no value, the list includes both inbound and outbound documents. Valid values are:

I = Inbound documents only
O = Outbound documents only

Databank

A 1-character alphabetic field to restrict the list to documents from the Sterling Gentran:Basic Databank, the Sterling Gentran:Realtime Databank, or both. Valid values are:

G = Sterling Gentran:Basic databank only
R = Sterling Gentran:Realtime databank only
blank = Both Sterling Gentran:Basic and Sterling Gentran:Realtime databanks

A (Action Code)

A 1-character alphabetic field for entering an action to be performed against the selected list item. The top line of the screen lists the valid actions. To execute the action, type the letter next to the selected Partner ID, then press **PF5**.

Example

If you want to view the Document Status screen for a particular Partner ID on the Document Directory screen, type **s** in the A field corresponding to the partner whose document status you want to view, then press **PF5**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
Partner (protected)	Displays the Partner ID that you have entered or selected. **Note:** The Partner ID and Qualifier make up the key for all associated records.	**User** (protected)	Displays the User ID that you have entered or selected.
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**Partner** (protected)	Displays the Partner ID you have entered or selected.

I/O

Displays the inbound or outbound code for the direction of the documents that belong to the Partner ID listed.

Dbk

Indicates whether the document is on the Sterling Gentran:Basic databank or on the Sterling Gentran:Realtime databank. Valid values are:

G = Sterling Gentran:Basic databank
R = Sterling Gentran:Realtime databank

Sterling Gentran:Structure Document Status Screen EDIM273

Purpose

The Sterling Gentran:Structure Document Status screen displays a list of all documents for a profile ID. Various selection fields are available to you for selecting which documents should be listed. The “Field Descriptions” section contains details about each of these fields.

How to Access

Access the Sterling Gentran:Structure Document Status screen in either of these two ways:

- Type **14** to select Sterling Gentran:Structure Document Status from the Databank Maintenance Menu.

  OR

- Type **3.14** in the jump code field.

Screen Example

The following diagrams illustrate the Sterling Gentran:Structure Document Status screen for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
Select Delete
EDIM273 3.14______        STRUCTURE DOCUMENT STATUS            XXX  06/01/2011
                                                                      12:00:00

Partner ID . . : LAWNVEND_________________________     Qual  _______________
Version ID . . : ____________
User Reference : ________________________________________________
In/Outbound. . : _     Databank  G
From Date  . . : __________  Time  _____
To Date  . . . : __________  Time  _____

  Rec  Structure
A Stat Version ID   User Reference                     Date       I/O Dbk
_      JASS         LAWN CARE VENDOR INC.              06/01/2011  I   G
_      JASS         LAWN CARE VENDOR INC.              06/01/2011  I   G
_      JASS         LAWN CARE VENDOR INC.              06/01/2011  I   G
_      JASS         REF:OA00010001                     06/01/2011  O   G
_
_
_
_
END OF DOCUMENTS
Enter PF1=Help PF2=Data   PF3=Exit PF4=Dir        PF5=Detail     PF6=Nx Pr ID
      PF7=Bwd  PF8=Fwd
```

Relationship Mode

```
Select Delete
EDIM273 3.14______        STRUCTURE DOCUMENT STATUS            XXX  06/01/2011
                                                                      12:00:00

User . . . . . : YOUR COMPANY_____________________  Partner  LAWNVEND______
Version ID . . : _____________
User Reference : _________________________________________________
In/Outbound. . : I     Databank  G
From Date  . . : __________  Time  _____
To Date  . . . : __________  Time  _____

  Rec  Structure
A Stat Version ID   User Reference                      Date       I/O Dbk
_      JASS         000000055                          06/01/2011  I   G
_
_
_
_
_
_
_
END OF DOCUMENTS
Enter PF1=Help PF2=Data   PF3=Exit PF4=Dir        PF5=Detail     PF6=Nx Pr ID
      PF7=Bwd  PF8=Fwd
```

Screen Actions

The system displays the screen actions on the top line of the Sterling Gentran:Structure Document Status screen. The following table describes each screen action function and gives instructions on how to perform those actions.

To perform this action ...	Associated with this screen action...	Do this ...
View the Sterling Gentran:Structure Document Status Detail screen for the document displayed	Select	Type an **S** in the A (Action Code) field next to the document for which you want to view status detail, then press **PF5**.
Delete a document	Delete	Type a **D** in the A (Action Code) field next to the document to delete and press **Enter**. To complete the request, respond to the system prompt.

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF2=Data Displays the Document Display screen, to display the application data for the document selected in the A (Action Code) field.

PF4=Dir Displays the Sterling Gentran:Structure Document Directory screen.

PF5=Detail Displays the Document Status Detail screen. This screen displays all processing and status information regarding the selected document.

PF6=Nx Pr ID Displays documents for the next Profile ID on the databank.

Field Descriptions

Note: Display-only fields contain the statement (protected) next to the field name in the documentation.

Note: Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To jump to another screen, press **Home**, type the jump code of the screen to which you want to jump, then press **Enter**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
Partner ID	Displays the Partner ID that you have entered or selected. **Note**: The Partner ID and Qualifier make up the key for all associated records.	**User**	Displays the User ID you have entered or selected.
Qual	Displays the Qualifier associated with the Partner ID, if applicable.	**Partner**	Displays the Partner ID you have entered or selected.

Version ID

A 12-character, alphanumeric field enabling you to restrict the list to a specific Version ID associated with the Partner ID.

User Reference

A 45-character alphanumeric field to identify the user reference you want to list, depending on whether the document is inbound or outbound and how you have chosen to implement the User Reference option (the Application Key fields on the Application Partner Reference screen in data mapping). This field is created for the document by either Editor processing or Data Mapping processing.

For inbound processing, the User Reference is either the value of the field defined as the audit indicator in the Standards subsystem (located on the segment element) or an internal reference number when the audit indicator is not used. For outbound processing, the User Reference is either the concatenation of the application keys (defined on the Application Partner Reference screen) or an internal reference number.

In/Outbound

A 1-character alphabetic field to restrict the list to just inbound documents or outbound documents. If left blank the list includes both inbound and outbound documents. Valid values are:

I	=	Inbound documents only
O	=	Outbound documents only

Databank

A 1-character alphabetic field to restrict the list to documents from the Sterling Gentran:Basic Databank, the Sterling Gentran:Realtime Databank, or both. Valid values are:

G	=	Sterling Gentran:Basic Databank only
R	=	Sterling Gentran:Realtime Databank only
blank	=	Both Sterling Gentran:Basic and Sterling Gentran:Realtime Databanks

From Date

A 10-character alphanumeric field that contains the date you want the list of documents to start with. Type the date in this format:
MM/DD/YYYY.

If you do not enter a date, all dates are selected. The value in the From Date field must be less than or equal to the current date.

Note: For inbound documents, the date used for the search is the output date. For outbound documents, the date used for the search is the date the document was loaded.

From Time

A 5-character alphanumeric field that contains the time you want the list of documents to start with. Type the time in this format:
HH:MM.

If you do not enter a time, all times are selected. The value in the From Time field must be less than or equal to the current time.

Note: For inbound documents, the time used for the search is the output time. For outbound documents, the time used for the search is the time the document was loaded.

To Date

A 10-character alphanumeric field containing the date with which you want the list of documents to end. Type the date in this format:
MM/DD/YYYY.

If you do not enter a date, all dates are selected. The value in the To Date field must be less than or equal to the current date.

To Time

A 5-character alphanumeric field that contains the time with which you want the list of documents to end. Type the time in this format:
HH:MM.

If you do not enter a time, all times are selected. The value in the To Time field must be less than or equal to the current date and time.

A (Action Code)

A 1-character alphabetic field to indicate an action to be performed against the corresponding list entry. The top line of the screen lists the valid actions. To execute the action, type the letter next to the selected document, then press **PF5**.

For example, if you want to view the Document Status Detail screen for the document displayed, type `s` in the A (Action Code) field for the document you want to view, then press **PF5**.

Rec Stat

Displays the last online action performed against the document. A value of **D** indicates that the document has been marked for delete.

Structure Version ID

Displays the Version ID for the document.

User Reference

Displays the User Reference for the document. Depending on whether the document is inbound or outbound and how you have chosen to implement the User Reference options in Data Mapping this field is created for the document by either Editor processing or Data Mapping processing.

Date

Displays the process date for inbound documents and the translated date for outbound documents.

I/O

Displays the inbound or outbound code for the direction of the documents that belong to the Partner ID being listed.

Dbk

Displays whether the document is on the Sterling Gentran:Basic databank or on the Sterling Gentran:Realtime databank. Valid values are:

G	=	Sterling Gentran:Basic databank
R	=	Sterling Gentran:Realtime databank

Sterling Gentran:Structure Document Status Detail Screen EDIM275

Purpose

The Sterling Gentran:Structure Document Status Detail screen displays detailed status and control information for a document on the databank.

How to Access

Access the Sterling Gentran:Structure Document Status Detail screen in either of these two ways:

- Select the desired document from the Sterling Gentran:Structure Document Status screen (EDIM273), and press **PF5=Detail**.

OR

- From the Sterling Gentran:Structure Document Display screen (EDIM274), press **PF14=Dtl**.

Note: This screen has no jump code associated with it.

Screen Examples

The following diagrams illustrate the Sterling Gentran:Structure Document Status Detail screen for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
EDIM275 __________      STRUCTURE DOCUMENT STATUS DETAIL       XXX  06/01/2011
                                                                      12:00:00

Partner ID . . :  LAWNVEND                              Qual:
Version ID     :  JASS                Agency..: SC   Division: 000
Transaction Set:  0926
User Reference :  LAWN CARE VENDOR INC.
Databank Run # :  00000001
Reference Tag  :  IS00000001                              I/O: Inbound
Reported Status:                                       Databank: GENTRAN
Pre-Proc . . . :  06/01/2011  12:00          Pre-Proc Status: 00
Int Env ID . . :  PHD                          SegID Length..: 03
Grp Env ID . . :                            SegID Start Pos..: 00078
Trn Env ID . . :  THD

                                                    Test/Prod: Prod
                                                     Envelope: Prod
                                               User Dup. Ind.: N
                                              Character Count: 000003215


Enter  PF1=Help    PF2=Data   PF3=Exit PF4=Doc
```

Relationship Mode

```
EDIM275 __________      STRUCTURE DOCUMENT STATUS DETAIL       XXX  06/01/2011
                                                                      12:00:00

User . . . . . :  YOUR COMPANY                          Partner: LAWNVEND
Version ID     :  JASS                Agency..: SC   Division: 000
Transaction Set:  0926
User Reference :  000000055
Databank Run # :  00000027
Reference Tag  :  IS00000014                             I/O: Inbound
Reported Status:                                      Databank: GENTRAN
Pre-Proc . . . :  06/01/2011  12:00          Pre-Proc Status: 00
Int Env ID . . :  PHD                          SegID Length..: 03
Grp Env ID . . :                            SegID Start Pos..: 00078
Trn Env ID . . :  THD

                                                    Test/Prod: Prod
                                                     Envelope: Prod
                                                User Dup. Ind.: N
                                               Character Count: 000003215


Enter PF1=Help PF2=Data   PF3=Exit PF4=Doc
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF2=Data Displays the Sterling Gentran:Structure Document Display screen (EDIM274). The system displays records for the current document.

PF4=Doc Returns to the Sterling Gentran:Structure Document Status Screen (EDIM273).

Field Descriptions

Jump Code

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, then press **Enter**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
Partner ID (protected)	Displays the Partner ID that you have entered or selected. **Note**: The Partner ID and Qualifier make up the key for all associated records.	**User** (protected)	Displays the User ID you have entered or selected.
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**Partner** (protected)	Displays the Partner ID you have entered or selected.

Version ID (protected)
A 12-character, alphanumeric field that identifies the standard.

Agency (protected)
A 2-character, alphabetic field that contains the agency associated with the version ID.

Division (protected)
Displays the Division defined to the partner profile that was used to process the document displayed.

Transaction Set
A 6-character, alphanumeric field that identifies the transaction set associated with the Version ID and agency.

User Reference (protected)
Displays the user reference for the document. Depending on whether the document is inbound or outbound and how you have chosen to implement the user reference options in Data Mapping, this field is created for the document by either Editor processing or Data Mapping processing.

Databank Run #
Displays the databank run number, which was assigned to the document by Sterling Gentran:Basic at the time the document was last processed. The system uses the Databank Run number to identify the run that processed the document.

Reference Tag
Displays the reference tag that Sterling Gentran:Basic has assigned to the document.

Network (Outbound only)
Displays the network as defined on the partner ID used to process the document**.**

I/O
Indicates whether the document is inbound or outbound. Valid values are:

Inbound = Inbound documents only
Outbound = Outbound documents only

Reported Status

Displays the reported status value for inbound or outbound documents. This value indicates whether the Application Databank Inquiry Report (EDID551) was run. Valid values are:

Y	=	Reported
N	=	Not reported
Space	=	(Blank) Not reported

Databank

Indicates whether the document is on the Sterling Gentran:Basic databank or on the Sterling Gentran:Realtime databank. Valid values are:

GENTRAN	=	Sterling Gentran:Basic databank
Realtime	=	Sterling Gentran:Realtime databank

Mapped (Outbound only)

Displays the date and time the document was last mapped.

Mapping Status (Outbound only)

Displays the status that resulted from the Inbound Mapper for the document. Valid values are:

00	=	The system encountered no errors during the mapping process for the document.
04	=	The system detected one or more requirement or relational condition errors.
08	=	The system detected one or more unknown or unexpected segment errors.
12	=	The system could not translate an inbound document.

Pre-Proc (Inbound only)

Displays the date and time the pre-processor was executed.

Pre-Proc Status (Inbound only)

Displays the status associated with the pre-processed run. Valid values are:

00	=	The system encountered no errors.
04	=	The system detected one or more condition errors.
08	=	The system detected one or more unknown errors.
12	=	A fatal error occurred, program terminated.

Int Env ID

The segment ID used at the interchange level.

SegID Length (required for fixed-format envelope)

A 2-position, numeric field that defines the length of the field containing the Segment ID for user-defined envelopes. Valid values are **1** – **10**. The sum of the Segment ID Start and Length fields cannot exceed 32743.

Grp Env ID
The segment ID used at the group level.

SegID Start Pos (required for fixed-format envelope)
A 5-position, numeric field that defines the start of the field containing the segment ID for user-defined envelopes. Valid values are **1** – **32743**. The sum of the Segment ID Start and Length fields cannot exceed 32743.

Trn Env ID
The segment ID used at the transaction level.

Test/Prod
Displays the test/production status of the transaction. This value is defined in the partner profile that was used to process the transaction.

Envelope
Displays the test/production status of the transaction. This value is determined from the interchange envelope that was received with the transaction from your partner.

User Dup. Ind.
Indicates whether this document is a duplicate of a document already on the databank. The duplicate check is based on the Partner and User Reference values.Valid values are:

N	=	No, is not a duplicate.
Y	=	Yes, is a duplicate.

Character Count
Displays the number of characters in the document.

Sterling Gentran:Structure Document Display Screen EDIM274

Purpose

The Sterling Gentran:Structure Document Display screen displays the data detail for all records for a document. The screen displays the first 75 characters of data for each record.

How to Access

Access the Sterling Gentran:Structure Document Display screen in either of the following two ways:

- Select the desired document from the Sterling Gentran:Structure Document Status screen (EDIM273), and press **PF2=Data**.

OR

- From the Sterling Gentran:Structure Document Status Detail screen (EDIM275), press **PF2=Data**.

Note: This screen has no jump code associated with it.

Screen Examples

The following diagrams illustrate the Sterling Gentran:Structure Document Display screen for both the Partner/Qualifier and Relationship (User/Partner) modes.

Partner/Qualifier Mode

```
Select
EDIM274 __________          STRUCTURE DOCUMENT DISPLAY         XXX  06/01/2011
                                                                      12:00:00


Partner ID . . : LAWNVEND                                Qual :
Name . . . . . : LAWN VENDOR FOR DEMONSTRATION
User Reference : LAWN CARE VENDOR INC.
I/O  . . . . . : Inbound     Databank : Gentran       Search   _______________
A  Record
_  LAWNVEND       LAWNCUST       9307291432JASSGARDEN000000055
_  09261993072914320000000155
_  IN-220PO-1552293201449320130
_  LAWN CARE VENDOR INC.    1212 E. MAIN STREET CINCINNATI          OH43015000
_  0001ITEM-100OR000005UOM10000129999000000000649995GRADE 100 LAWN SEED
_  0002ITEM-110OR000004UOM10000109999000000000439996GRADE 200 LAWN SEED
_  0003ITEM-120OR000009UOM10000119999000000001079991GRADE 300 LAWN SEED
_  0004ITEM-230OR000012UOM10000139999000000001679988GROW-A-LOT FERTILIZER
_  0005ITEM-240OR000010UOM10000134999000000001349990GROW-A-LOT-MORE FERTILIZER
_  0006ITEM-300OR000007UOM10000229999000000001609993#10 SHOVELS
_  0007ITEM-350OR000010UOM10000249999000000002499990#15 RAKES

Enter PF1=Help         PF3=Exit PF4=Doc        PF5=Record     PF6=Search
      PF7=Bwd  PF8=Fwd                                       PF14=Dtl
```

Relationship Mode

```
Select
EDIM274 __________          STRUCTURE DOCUMENT DISPLAY         XXX  06/01/2011
                                                                      12:00:00


User . . . . . : YOUR COMPANY                              Partner : LAWNVEND
Name . . . . . : EXAMPLE OF A FIX FORMAT USER     EXAMPLE OF A FIX FORMAT PART
User Reference : 000000055
I/O  . . . . . : Inbound     Databank : Gentran       Search   _______________
A  Record
_  LAWNVEND       LAWNCUST       9307291432JASSGARDEN000000055
_  0926199307291432000000155
_  IN-220PO-1552293201449320130
_  LAWN CARE VENDOR INC.    1212 E. MAIN STREET CINCINNATI          OH43015000
_  0001ITEM-100OR000005UOM10000129999000000000649995GRADE 100 LAWN SEED
_  0002ITEM-110OR000004UOM10000109999000000000439996GRADE 200 LAWN SEED
_  0003ITEM-120OR000009UOM10000119999000000001079991GRADE 300 LAWN SEED
_  0004ITEM-230OR000012UOM10000139999000000001679988GROW-A-LOT FERTILIZER
_  0005ITEM-240OR000010UOM10000134999000000001349990GROW-A-LOT-MORE FERTILIZER
_  0006ITEM-300OR000007UOM10000229999000000001609993#10 SHOVELS
_  0007ITEM-350OR000010UOM10000249999000000002499990#15 RAKES

Enter PF1=Help         PF3=Exit PF4=Doc        PF5=Record     PF6=Search
      PF7=Bwd  PF8=Fwd                                       PF14=Dtl
```

Screen Action

The system displays the screen actions on the top line of the Sterling Gentran:Structure Document Display screen. The following table describes the function for this screen and gives instructions on how to perform the function.

To perform this action ...	Associated with this screen action ...	Do this ...
View the record display screen for the record selected	Select	Type an **s** in the A (Action Code) field next to the record for which you want to view the record display, then press **PF5=Record**.

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF5=Record Displays the Sterling Gentran:Structure Record Display screen (EDIM276) for the selected EDI record.

PF6=Search Used with a value entered in the Search field, to search for the specified value in the EDI data records.

PF4=Doc Re-displays the **Sterling Gentran:Structure** Document Status Detail screen (EDIM273).

PF14=Dtl Displays the Sterling Gentran:Structure Document Status Detail screen for the document displayed.

Field Descriptions

Note: Display-only fields contain the statement (protected) next to the field name in the documentation.

Note: Fields in which you *must* enter a value contain the statement (required) next to the field name in the documentation.

Jump Code

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, then press **Enter**.

Partner/Qualifier Mode		Relationship Mode	
Field	**Description**	**Field**	**Description**
Part ID (protected)	Displays the Partner ID that you have entered or selected. **Note**: The Partner ID and Qualifier make up the key for all associated records.	**User** (protected)	Displays the User ID you have entered or selected.
Qual (protected)	Displays the Qualifier associated with the Partner ID, if applicable.	**Partner** (protected)	Displays the Partner ID you have entered or selected.
Name (protected)	A 35–position alphanumeric field to display the partner name as found on the Name and Address record. The partner name can help to further identify the Partner ID.	**Name (User)** (protected)	An alphabetic field displaying the user name, if it exists on file for the User/ Partner ID.
		Name **(Partner)** (protected)	An alphabetic field displaying the partner name, if it exists on file for the User/Partner ID.

User Reference

Displays the User Reference for the document. Depending on whether the document is inbound or outbound and how you have chosen to implement the User Reference options in Data Mapping, this field is created for the document by either Editor processing or Data Mapping processing.

I/O

Indicates whether the document is inbound or outbound. Valid values are:

Inbound = Inbound documents only
Outbound = Outbound documents only

Databank

Indicates whether the document is in the Sterling Gentran:Basic databank or in the Sterling Gentran:Realtime databank. Valid values are:

GENTRAN= Sterling Gentran:Basic databank
Realtime = Sterling Gentran:Realtime databank

Search

A 14-character alphanumeric field that contains a specified value to search for in the records. Following the search, the record containing the value is the first record displayed. This field is used in conjunction with the **PF6** key.

A (Action Code)

A 1-character alphabetic field to indicate an action to be performed against the corresponding list entry. The top line of the screen lists the valid actions. To execute the action, type the letter next to the selected record, then press **PF5**.

For example, if you want to view the Sterling Gentran:Structure Record Display screen for a particular record on the Document Display screen, type `s` in the A (Action Code) field for the record you want to view, then press **PF5**.

Record

Displays up to the first 75 characters of data as found in the record. You can view the complete record from the Record Display screen.

Sterling Gentran:Structure Record Display Screen EDIM276

Purpose

The Sterling Gentran:Structure Record Display screen displays a record selected from a document.

How to Access

Access the Sterling Gentran:Structure Record Display screen by typing an **s** in the A (Action code) field next to the desired record on the Sterling Gentran:Structure Document Display screen (EDIM274), and pressing **PF5**.

Note: This screen has no jump code associated with it.

Screen Example

The following diagram illustrates the Sterling Gentran:Structure Record Display screen.

```
Select
EDIM276 _________          STRUCTURE RECORD DISPLAY          XXX  06/01/2011
                                                                    12:00:00


Version ID. . . :  JASS                        Agency. . .: SC
Transaction Set :  0926                        SegID . . .: IDT
I/O . . . . . :  Inbound                       Databank. .: Gentran
   Fld
A  Seq  Description                    Field Data
_  002  LINE ITEM NUMBER               0001
_  004  ITEM NUMBER                    ITEM-100
_  006  QUANTITY TYPE                  OR
_  008  QUANTITY                       000005
_  010  UNIT OF MEASURE                UOM1
_  012  PRICE                          0000129999
_  014  EXTENDED PRICE                 00000000649995
_  016  ITEM DESCRIPTION               GRADE 100 LAWN SEED
_  018  RESERVE ELEMENT 2
_


Enter   PF1=Help    PF3=Exit PF4=Doc        PF5=Field
      PF7=Bwd  PF8=Fwd
```

Screen Action

The system displays the screen actions on the top line of the Sterling Gentran:Structure Record Display screen. The following table describes the screen function for this screen and gives instructions on how to perform the function.

To perform this action ...	Associated with this screen action ...	Do this ...
View the Field Display screen for the field selected	Select	Type **s** in the A (Action Code) field next to the field sequence number for which you want to view the field display data, then press **PF5**.

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF4=Doc Returns to the Sterling Gentran:Structure Document Display screen (EDIM274).

PF5=Field Displays the Sterling Gentran:Structure Field Display screen (EDIM277) for the selected EDI data.

Field Descriptions

Jump Code
A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, then press **Enter**.

Version ID (protected)
A 12-character, alphanumeric field that identifies the standard.

Agency (protected)
A 2-character, alphabetic field that contains the agency associated with the version ID.

Transaction Set
A 6-character, alphanumeric field that identifies the transaction set associated with the version ID and agency.

SegID
A 4-character, alphanumeric field that identifies the segment ID used in the standards for the record displayed.

I/O
Indicates whether the document is inbound or outbound. Valid values are:

Inbound = Inbound documents only
Outbound = Outbound documents only

Databank
Indicates whether the document is in the Sterling Gentran:Basic databank or in the Sterling Gentran:Realtime Databank. Valid values are:

Gentran = Sterling Gentran:Basic databank
Realtime = Sterling Gentran:Realtime databank

A (Action Code)

A 1-character alphabetic field that contains an action to be performed against the corresponding list entry. The top line of the screen lists the valid actions. To execute the action, type the letter next to the selected field sequence number, then press **PF5=Field**.

For example, if you want to view the Field Display screen for a particular field, type an **s** in the A (Action Code) field next to the field sequence number you want to view, then press **PF5=Field**.

Fld Seq

Displays the field sequence number of the field within the record.

Description

Displays a text description of the field as defined in the Standards file.

Field Data

Displays up to the first 31 characters of data as found in the record's field. You can view the complete field from the Sterling Gentran:Structure Field Display screen (EDIM277).

Sterling Gentran:Structure Field Display Screen EDIM277

Purpose

The Sterling Gentran:Structure Field Display screen enables you to view a field selected from a record.

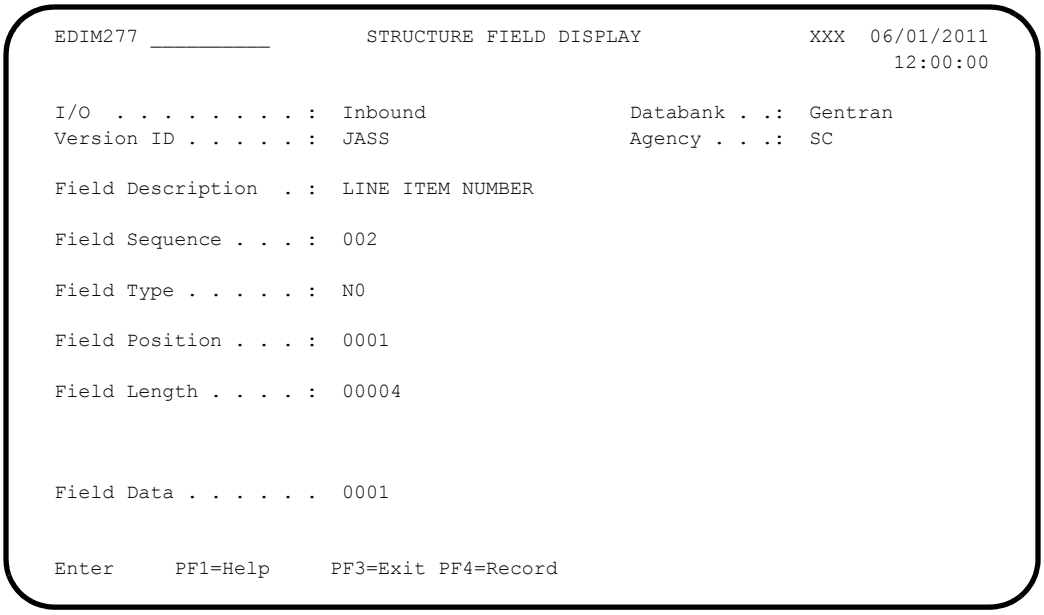
How to Access

Access the Sterling Gentran:Structure Field Display screen by typing an **s** in the A (Action Code) field next to the desired record on the Sterling Gentran:Structure Record Display screen (EDIM276), and pressing **PF5=Field**.

Note: This screen has no jump code associated with it.

Screen Example

The following diagram illustrates the Sterling Gentran:Structure Field Display screen.



Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF4=Record Displays the Sterling Gentran:Structure Record Display screen (EDIM276).

Field Descriptions

Jump Code

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed in the jump code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, then press **Enter**.

I/O

This field indicates whether the document is inbound or outbound. Valid values are:

Inbound = Inbound documents only
Outbound = Outbound documents only

Databank

Displays whether the document is in the Sterling Gentran:Basic Databank or in the Sterling Gentran:Realtime Databank. Valid values are:

GENTRAN= Sterling Gentran:Basic Databank
Realtime = Sterling Gentran:Realtime Databank

Version ID (protected)

A 12-character, alphanumeric field that identifies the standard.

Agency (protected)

A 2-character, alphabetic field that contains the agency associated with the Version ID.

Field Description

Displays a text description of the field as defined in the Standards file.

Field Sequence

Displays the sequence number of the field in the record.

Field Type

Displays the data type of the field. Valid values are:

CM = Date format = MMDDYYYY
CY = Date format = YYYYMMDD
DD = Date format = DDMMYY
JD = Date format = Julian YYDDD
J8 = Date format = Julian YYYYDD
MM = Date format = MMDDYY
PD = Date format = Packed DDMMYY
PJ = Date format = Packed Julian YYDDD
PM = Date format = Packed MMDDYY
PY = Date format = Packed YYMMDD
Pn = Signed Packed with n implied decimal positions
Sn = Signed numeric with n implied decimal positions
YY = Date format = YYMMDD
ZD = Date format = Packed DDMMYYYY
ZJ = Date format = Packed Julian YYYYDDD

ZM = Date format = Packed MMDDYYYY
ZY = Date format = Packed YYYYMMDD

Valid values for standards version of all envelope types are the following:

AN = String type = alphanumeric
CD = Date format = DDMMYYYY
DT = Date format = YYMMDD or YYYYMMDD
D8 = Date format = YYYYMMDD
FS = Fixed string = alphanumeric-pad with spaces
ID = Identifier type = element has code list
Nn = Numeric with n decimal places implied
R = Decimal = data contains explicit decimal point
Rn = Decimal where n indicates the maximum number of decimal positions.
TM = Time format = HHMM
T6 = Time format = HHMMSS, where SS = seconds
T8 = Time format = HHMMSSss, where ss = hundredths of seconds
B = Binary

Field Position

Displays the offset of the field from the start of the record. The record starts at 1.

Field Length

Displays the fixed length of the field.

Field Data

Displays up to 100 characters (2 lines of 50 each) for the field's data value.

Sterling Gentran:Structure Envelope Display Screen EDIM192

Purpose

The Sterling Gentran:Structure Envelope Display screen displays data fields that can be defined for specific user envelopes.

How to Access

Access this screen by typing an **s** in the A (Action Code) field next to the desired envelope record on the Sterling Gentran:Structure Document Display (EDIM274) screen, and pressing **PF5=Record**.

> **Note:** The Sterling Gentran:Structure Envelope Display screen (EDIM192) is only available for selected records in which SegID fields are associated with envelope headers and trailers as defined in user defined envelopes.

Screen Example

The following diagram illustrates the Sterling Gentran:Structure Envelope Display screen.

```
EDIM192 __________     STRUCTURE ENVELOPE DISPLAY             XXX  06/01/2011
                                                                     12:00:00


Segment ID...........:  PHD           Modifier.........:        Length:     80
Default Version ID...:                Transaction ID..:

Envelope Field       Field Data          Envelope Field       Field Data
-------------------- ----------------    -------------------- ---------------

Version ID.........: JASS                Transaction ID.....:
Sender ID..........: LAWNVEND            Receiver ID........: LAWNCUST
Reference Number...: 000000055           Generic Element 1..: GARDEN
Generic Element 2..:                     Generic Element 3..:
Generic Element 4..:                     Generic Element 5..:
Generic Element 6..:                     Generic Element 7..:
Generic Element 8..:                     Generic Element 9..:
Generic Element 10.:                     Current Date.......: 120104
Current Time.......: 1200                Current Date Format: YY


Enter     PF1-Help        PF3=Exit PF4=Doc
```

Function Key Descriptions

> **Note:** Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

Enter	Re-displays the current screen.
PF3=Exit	Returns to the Databank Maintenance menu.
PF4=Doc	Returns to the previous screen.

Field Descriptions

Segment ID (protected)
Displays the characters that identify the segment ID of the envelope that is processed.

Modifier (protected)
Displays the segment ID modifier of the envelope that is processed.

Length
A 5-position numeric field that defines the length of the envelope record. The default value is 80. Valid values are **1** – **2000**.

Default Version ID
A 12-position alphanumeric field to define what standard version should be used for processing when this user envelope is received. The field is intended to be used for proprietary, fixed-format standards, where the version is not specified on the envelope. This field is used by the Inbound Pre-Processing program for version determination. It is not used by the outbound process.

Default Transaction ID
A 6-position alphanumeric field to define what transaction set should be used for processing purposes when this user envelope is received. The field is intended to be used for proprietary, fixed-format standards where the transaction set is not specified on the envelope. This field is used by the Inbound Pre-Processing program for transaction determination. It is not used by the outbound process.

Version ID
A 12-position numeric field that contains the standard version.

Transaction ID
A 6-position alphanumeric field that contains the transaction set ID.

Sender ID
A 15-position alphanumeric field that contains the sender ID.

Receiver ID
A 15-position alphanumeric field that contains the receiver ID.

Reference Number
An 8-position numeric field that contains the reference number. This number is also referred to as the control number.

Generic Elements 1 to 10
A 16-position, alphanumeric field that displays the data associated with the generic elements as defined in the partner profile.

Current Date
An 8-position numeric field that contains the current date.

Current Time
A 6-position numeric field that contains the current time.

Current Date Format

A 2-position, alphanumeric field that defines the format of the current date. This field is only used during outbound processing and is only valid when the Current Date Start field contains a valid value. Valid values are:

MM	=	Current date will be in MMDDYY format.
DD	=	Current date will be in DDMMYY format.
YY	=	If length is 6, the current date will be in YYMMDD format. If length is 8, the current date will be in YYYYMMDD format.

Standards Change Audit Subsystem

Overview

This section describes the special Standards Change Audit screens that are used to view Sterling Gentran:Structure User Envelope Change Audit records.

The Standards Change Audit subsystem allows you to view changes that have been applied to the online standards files. For Sterling Gentran:Structure, there is an additional Standards File—the User Envelope file. It contains the information, along with the other 13 standards files from Sterling Gentran:Basic, to describe the layout of the inbound and outbound fixed format documents. The User Envelope file contains values used to build outbound Fixed Format envelopes and contains information used to split inbound fixed format data from Delimited (variable-format) EDI data.

Note: See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* for more information about the Standards Maintenance and Standards Change Audit subsystems.

Standards Change Audit Directory EDIM181

Purpose

The Standards Change Audit Directory lists all of the Version IDs that currently exist in the Standards Change Audit file. Standards change audit records are written whenever an add, update, or delete occurs in a record of the online standards files via the online screens, the batch standards copy utility (EBDI032), or the batch standards merge utility (EBDI039).

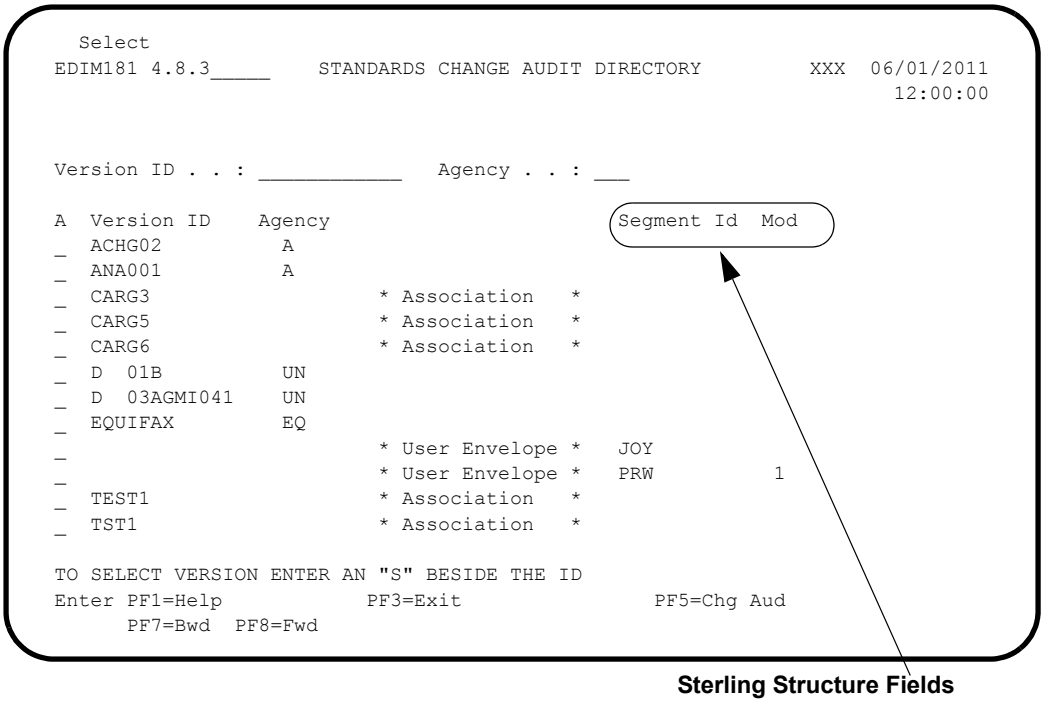
How to Access

Access the Standards Change Audit Directory screen in one of the following ways:

- On the Change Audit Main Menu, type **3** to select the Standards Change Audit Directory screen and press **Enter**.
- Type **4.8.3** in the Jump Code field of any screen and press **Enter**.

Screen Example

The following diagram illustrates the Standards change Audit Directory:



Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF5=Chg Aud Select a version ID by entering **S** next to the selected version ID and pressing **PF5** to branch to the Standards Change Audit Status screen for that ID. This screen displays standards change audit records for the selected version ID.

Field Descriptions

(Jump Code)

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed automatically in the Jump Code field for that screen. To jump to another screen, press **Home**, type the jump code of the screen to which you want to jump, and press **Enter**.

See "Jump Codes" in Chapter 1 of this guide for further information about using jump codes.

(Starting) Version ID

A 12-position alphanumeric field used to specify the version you want the display list to start with. If you type a partial Version ID in this field, the system displays ten Version IDs, starting with the closest matching Version ID. If you leave this field blank, the version list begins with the first version found in the Standards change audit file.

(Starting) Agency

A 3-position alphanumeric field used to specify the agency that, when combined with the (Starting) Version ID, positions the display list.

A (Action Code)

A 1-position alphabetic field used to select a Version ID. Type **s** next to a Version ID and press **Enter**.

Version ID (protected)

Displays the Version ID.

Note: Sterling Gentran:Structure User Envelope change audit records will have spaces in this field.

Agency (protected)

Displays the agency associated with the Version ID.

Note: Sterling Gentran:Structure User Envelope change audit records will have spaces in this field.

(Record Type) (protected)

This field identifies Association and User Envelope Change records. Valid values:

* Association *
* User Envelope*

Segment Id (protected)

Displays the Segment ID associated with the User Envelope records.

Mod (protected)

Displays the Segment ID modifier associated with the User Envelope records.

Standards Change Audit Status - Sterling Gentran:Structure EDIM184

Purpose

The Standards Change Audit Status - Sterling Gentran:Structure screen displays all of the records that currently exist in the Standard Change Audit file for the indicated Segment ID/ Mod. This screen only displays User Envelope Change audit records.

How to Access

Access the Standards Change Audit Status - Sterling Gentran:Structure screen as follows:

- On the Standards Change Audit Directory screen, type **s** to select the desired Version ID/Agency and press **PF5**.

Screen Example

The following diagram illustrates the Standards Change Audit Status for Sterling Gentran:Structure screen:

```
Select
EDIM184 __________     CHANGE AUDIT STATUS - STANDARDS          XXX  06/01/2011
                                                                       12:00:00

Segment ID : XXX_________       Mod . . : 1
From Date    __________  Time  _____
To Date      __________  Time  _____


A   Record Type    Update  Date
                     Code
_   User Envelope    A    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    U    06/01/11
_   User Envelope    D    06/01/11

Enter PF1=Help            PF3=Exit PF4=Dir        PF5=Detail
      PF7=Bwd  PF8=Fwd
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF5=Detail Select a record by entering S next to the selected record type and pressing PF5 to branch to the Standards Change Audit Detail screen for that record. This screen displays the change audit details for the selected record.

Field Descriptions

(Jump Code)

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed automatically in the Jump Code field for that screen. To jump to another screen, press **Home**, type the jump code of the screen to which you want to jump, and press **Enter**.

See "Jump Codes" in Chapter 1 of this guide for further information about using jump codes.

Segment ID

A 10-position alphanumeric field used to enter or display the Segment Id for the User Envelope records.

Mod

A 1-position alphanumeric field used to enter or display the modifier that is associated with the Segment ID.

From Date

A 10-character alphanumeric field used to enter the date you want the list to start with. Type the date in the following format: MM/DD/YYYY. If a date is not entered for this field, all dates are selected. The value in the From Date field must be less than or equal to the current date.

Time

A 5-character alphanumeric field used to enter the time you want the list to start with. Type the time in the following format: HH:MM. If a time is not entered for this field, all times are selected.

To Date

A 10-character alphanumeric field used to enter the date you want the list to end with.Type the date in the following format: MM/DD/YYYY. The value in the To Date field must be greater than or equal to the From Date.

Time

A 5-character alphanumeric field used to enter the time you want the list to end with. Type the time in the following format: HH:MM. If a time is not entered for this field, all times are selected.

A (Action Code)

A 1-position alphabetic field used to select a record type. Type S next to a record type and press Enter.

Record Type (protected)

The record type identifies the type of standards record that was modified. Valid value is User Envelope.

Update code (protected)

Displays the type of modification that caused the generation of this standards change Audit record. Valid values are:

Update

Add

Delete

Date (protected)

Displays the date that this change audit record was created.

Standards Change Audit Detail - Sterling Gentran:Structure EDIM185

Purpose

The Standards Change Audit Detail screen displays the detail information for the standards change audit record.

How to Access

Access the Standards Change Audit Status - Sterling Gentran:Structure screen as follows:

- On the Standards Change Audit Status screen, type **s** to select the desired record and press **PF5**.

Screen Example

The following diagram illustrates the Standards Change Audit Detail for Sterling Gentran:Structure screen:

```
EDIM185 __________     STANDARDS- CHANGE AUDIT DETAIL          XXX  06/01/2011
                                                                      12:00:00

Segment ID. . : XXX                 Mod  : 1
Record Type . : User Envelope




Function: Update  Date: 06/01/2011 Time: 12:00:00 User: XXX Source: EDIX190

Description. . . SEG-STRT
Before . . . . . 00001


After. . . . . 00003



Enter PF1=Help            PF3=Exit PF4=Chg Aud                  PF6=Next CA
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF5=Next CA Displays the next record in the Standards Change Audit file for the indicated Segment ID/Mod.

Field Descriptions

(Jump Code)

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed automatically in the Jump Code field for that screen. To

jump to another screen, press **Home**, type the jump code of the screen to which you want to jump, and press **Enter**.

See "Jump Codes" in Chapter 1 of this guide for further information about using jump codes.

Segment ID
A 10-position alphanumeric field used to enter or display the Segment Id for the User Envelope records.

Mod
A 1-position alphanumeric field used to enter or display the modifier that is associated with the Segment ID.

Record Type (protected)
The record type identifies the type of standards record that was modified. Valid

Value is User Envelope.

Function (protected)
Displays the type of modification that caused the generation of this standards change Audit record. Valid values are:

Update
Add
Delete

Date (protected)
Displays the date that this change audit record was created.

Time (protected)
Displays the time that this change audit record was created.

User (protected)
Displays the initials of the user who created the record.

Source (protected)
This field indicates which screen or batch program generated the change audit record.

Description (protected)
Displays the description of the field that was updated. This field is only displayed when Function is Update.

Before (protected)
Displays the value that was in the partner record before the update. This field is Only displayed when Function is Update.

After (protected)
Displays the value that resulted from the update. This field is only displayed when Function is Update.

Sterling Gentran:Realtime Screens

Overview

Sterling Gentran:Realtime supports the features added to Sterling Gentran:Basic for Sterling Gentran:Structure processing. The Sterling Gentran:Realtime system runs all of its processes under CICS.

The Sterling Gentran:Structure for Sterling Gentran:Realtime screens are described in this section.

Fixed Format Pre-Processor Path Maintenance EDIM840

Purpose

The Fixed Format Pre-Processor Path Maintenance screen provides the parameters that the Pre-Processor program will use during processing. The purpose of the Pre-Processor program is to duplicate some of the critical functionality that is present in the Inbound Editor program. This program replaces the Inbound Editor program in the inbound processing flow for fixed-format standards.

How to Access

Access the Fixed Format Pre-Processor Path Maintenance screen by typing **6** in the "Transfer to" field on the Additional Shell Steps Maintenance screen (EDIM84F) and pressing **PF5=Transfer**.

See the *IBM® Sterling Gentran:Realtime® for z/OS® User Guide* for information about the Additional Shell Steps Maintenance screen.

Screen Example

The following diagram illustrates the Fixed Format Pre-Processor Path Maintenance screen.

```
EDIM840 __________ FIXED FORMAT PRE-PROCESSOR PATH MAINTENANCE XXX  06/01/2011
                                                                      12:00:00

Path ID.....................:  302P  STRUCTURE_INBOUND_PRE-PROCESSOR_______
Record Format...............  0        0 = Fixed 1 = Variable
Record Length...............  00080    Max of 32760
Partner ID / Qual...........  ____________________________________ /  ____
User ID / Qual..............  ____________________________________ /  ____
Version ID..................  ____________   Agency..:  ___
Transaction ID..............  ______
Envelope Level..............  2      0 = Trans 1 = Group 2 = Interchange
Application By..............  0      0 = None  1 = User  2 = Partner
User Reference Segment ID...  IRN____________
Segment ID Starting Position.  00078
Segment ID Length...........  03     Dbk Proc. Level...: 1  0=No,1=Full
User Reference Starting Pos.  00001                         2=Dir
User Reference Length.......  23     Report Print Sw...: 0  0=No 1=Print
Detail Report...............  0      0=No 1=Yes
Data Envelope...............  _      0=No 1=Yes
Last Update Date:  06/01/11 Time:  12:00:00 User:  PRW

Enter PF1=Help           PF3=Exit PF4=Dir                      PF6=Shell
                      PF9=Add PF10=Updt PF11=Del
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF4=Dir	Returns to the Path Options Directory screen.
PF6=Shell	Displays the General Shell Path Maintenance screen.
PF9=Add	Adds a new Pre-Processor path. Enter the appropriate parameters values and press **PF9=Add**.

	Copies a current path. First, enter the current path ID and press **Enter**. Type over the path ID and any other fields that need to be changed and press **PF9=Add**. The system will re-display the screen and display a message to indicate the information was added.
PF10=Updt	Updates the current Pre-Processor path. Enter the new data over the existing data and press **PF10=Updt**. A message will be displayed to indicate the information was updated.
PF11=Del	Deletes a current Pre-Processor path. Press the **PF11=Del** key to delete the data. The system will prompt you to confirm the delete by again pressing **PF11=Del**.

Field Definitions

Path ID

A 4-position alphanumeric field to identify the path containing the Pre-Processor parameters to be used for processing. The first three numeric digits are the Path ID. The Path ID is used to tie the Mapper and Pre-Processor parameters to the Shell parameters. The suffix is always P.

(Path ID Description)

A 40-character alphanumeric field containing the description for the processing of these parameters. The system displays this description on the Path Options Directory screen.

Record Format

A 1-digit numeric field that identifies the record format of the fixed-format data. Valid values are:

0	=	Data is in fixed-length records.
1	=	Data is in variable-length records.

Record Length

A 5-digit numeric field that is the length of the fixed-format data. For fixed-length records, the length is from 10 to 32760; for variable-length records, the length is from 10 to 32752.

Partner ID

A 35-position alphanumeric field (15 positions if the trading profile mode is "Relationship") used to specify the partner ID of the fixed-format data being processed. This partner ID is used for all envelopes. The system ignores the partner information on the envelopes.

Partner Qual

A 4-position alphanumeric field that identifies the partner ID qualifier to use for all data processed through this path. The system ignores any partner information contained on the envelopes. You must complete the Partner ID field if the you are specifying the qualifier in this field.

User ID

A 35-position alphanumeric field (15 positions if the trading profile mode is "Relationship") used to specify the user ID to use for all data received in this run. The system ignores any user information contained on the envelopes.

Note: The system does not access the Partner Cross-Reference file during the lookup logic for the user ID and the partner ID. Code your partner IDs exactly as they appear on the partner profile.

User Qual

A 4-position alphanumeric field that identifies the user ID qualifier to use for all data processed through this path. Any user information contained on the envelopes is ignored. You must complete the User ID field if you specify the qualifier in the User Qual field.

Version ID

A 12-position field that identifies the version being used to process the inbound fixed standard data.

Agency

A 3-position field that identifies the agency associated with the version ID.

Transaction ID

A 6-position alphanumeric field that identifies which transaction set ID to use for all data processed through this path. The system ignores any transaction information contained in the envelopes.

Envelope Level

A 1-digit numeric field used to specify the level of enveloping that the fixed-format (non-delimited) standard uses. Valid values are:

0	=	Transaction level (default value)
1	=	Group level
2	=	Interchange level

The Pre-Processor program clears hold areas when an envelope at the specified level is received.

Application By

A 1-position numeric field used to specify to the program where to look for inbound transaction-level data separation records. Valid values are:

0	=	None
1	=	User
2	=	Partner

This information is used to specify the application to be loaded by the Inbound Mapper so that the instream option can be used.

User Reference Segment ID

A 15-position alphanumeric field used to specify the segment ID of the record from which the Application User-Reference field can be found.

Segment ID Starting Position

A 5-digit numeric field used to specify the starting position of the Segment ID field in the record where the Application User-Reference field can be found.

Segment ID Length

A 2-digit numeric field used to specify the length of the Segment ID field in the record where the Application User-Reference field can be found.

Dbk Proc. Level

A 1-position numeric field used to designate the databank processing level switch. Valid values are:

0	=	No databank
1	=	Full databank
2	=	Directory-only databank

The processing level switch defines the lowest level of databank processing required for the Mapper. However, trading partner requests at a higher level are performed. If there is a request for a databank operation at a higher level than the configuration switch setting (in the Databank Config. Sw. field), an error is generated and processing terminates.

User Reference Starting Position

A 5-digit numeric field used to specify the starting position of the Application User-Reference field in the EDI data record.

User Reference Length

A 2-digit numeric field used to specify the length of the Application User-Reference field in the EDI data record.

Report Print SW

A 1-position field that specifies whether to print reports generated from the Pre-Processor program. When the field is set to 1, reports are printed. When the field is set to spaces or 0, reports are not printed. The default value is 0.

Detail Report

A 1-character numeric field that indicates whether to print the first 80 characters of each record read and written. Valid values are:

0	=	No, do not print the records.
1	=	Yes, print the records.

Data Envelope

A 1-position field that instructs the Pre-Processor program to write the envelope segments as data segments. This allows elements in these segments to be mapped to application fields when data is processed by the Inbound Mapper (EDIR041). Valid values are:

0	=	No, do not write envelopes as data segments.
1	=	Yes, write the envelopes as data segments.

Last Update Date (Protected)

An 8-position field that displays the date on which the information on this screen was created or last changed. The date format is MM/DD/YY.

Last Update Time (Protected)

An 8-position field that displays the time at which the information on this screen was created or last changed. The time format is HH:MM:SS.

Last Update User (Protected)

A 3-position field that displays the initials of the user who created or last changed the information on this screen.

Fixed/Variable Splitter Path Maintenance EDIM841

Purpose

The Fixed/Variable Splitter Path Maintenance screen enables you to specify the options used by the Splitter program when splitting the fixed-format EDI data from the variable-format EDI data.

How to Access

Access the Fixed/Variable Splitter Path Maintenance screen by typing **7** in the 'Transfer to" field on the Additional Shell Steps Maintenance screen (EDIM84F) and pressing **PF5=Transfer**.

See the *IBM® Sterling Gentran:Realtime® for z/OS® User Guide* for information about the Additional Shell Steps Maintenance screen.

Screen Example

The following diagram illustrates the Fixed/Variable Splitter Path Maintenance screen.

```
EDIM841 __________  FIXED/VARIABLE SPLITTER PATH MAINTENANCE   XXX  06/01/2011
                                                                      12:00:00

Path ID.....................:  301F  STRUCTURE INBOUND SPLITTER_____________

Compord Dest................:  000   Immediate Option or Queue File Number
EDI Variable Dest...........:  000   Immediate Option or Queue File Number
Fixed Gencod Dest...........:  000   Immediate Option or Queue File Number
Fixed GM Dest...............:  000   Immediate Option or Queue File Number
Other Fixed Dest............:  302   Immediate Option or Queue File Number
Report Print Sw.............:  0     0 = No, 1 = Print

Last Update Date............: 06/01/11
            Time............: 12:00:00
            User............: XXX




NO PATH RECORD FOUND
Enter PF1=Help            PF3=Exit PF4=Dir                        PF6=Shell
                        PF9=Add PF10=Updt PF11=Del
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help, PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF15=Logoff**, and **Enter** are defined in Chapter 1 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide*.

PF4=Dir Returns to the Path Options Directory screen.

PF6=Shell Displays the General Shell Path Maintenance screen.

PF9=Add Adds a new Pre-Processor path. Enter the appropriate parameters values and press **PF9=Add**.

Copies a current path. First, enter the current path ID and press **Enter**. Type over the path ID and any other fields that need to be changed and

press **PF9=Add**. The system will re-display the screen and display a message to indicate the information was added.

PF10=Updt Updates the current Splitter path. Enter the new data over the existing data and press **PF10=Updt**. A message will be displayed to indicate the information was updated.

PF11=Del Deletes a current Splitter path. Press **PF11=Del** to delete the data. The system will prompt you to confirm the delete by again pressing **PF11=Del**.

Field Definitions

Path ID

A 4-position alphanumeric field designating the path for which the Shell parameters are used. The suffix is always "F" and the three-digit path number is used to match the Shell with the Splitter parameters.

(Path ID Description)

A 40-character alphanumeric field containing the description for the processing of these parameters. The system displays this description on the Path Options Directory screen.

Compord Dest

A 3-digit numeric field used to specify the destination option to be used in processing the COMPORD fixed-format data. Valid values are **000** for no option or any 3-digit number that specifies any immediate or queue option.

The Splitter program processes any COMPORD data through this option number.

EDI Variable Dest

A 3-digit numeric field used to specify the destination option to be used in processing the variable-format EDI data. Valid values are **000** for no option or any 3-digit number that specifies any immediate or queue option.

The Splitter program processes any variable data through this option number.

Fixed Gencod Dest

A 3-digit field used to specify the destination option to be used in processing the GENCOD fixed-format data. Valid values are **000** for no option or any 3-digit number that specifies any immediate or queue option.

The Splitter program processes any GENCOD data through this option number.

Fixed GM Dest

A 3-digit field used to specify the destination option to be used in processing the GM fixed-format data. Valid values are **000** for no option or any 3-digit number that specifies any immediate or queue option.

The Splitter program processes any GM fixed-format data through this option number.

Other Fixed Dest

A 3-digit field used to specify the destination option to be used in processing all other fixed-format data. Valid values are **000** for no option or any 3-digit number that specifies any immediate or queue option.

The Splitter program processes all other fixed-format data through this option number.

Report Print Sw (Optional)

A 1-digit field that instructs the Splitter program whether to print reports. Valid values are:

0 = Do not print reports.

1 = Print reports.

Last Update Date (Protected)

An 8-position field that displays the date on which the information on this screen was created or last changed. The date format is MM/DD/YY.

Last Update Time (Protected)

An 8-position field that displays the time at which the information on this screen was created or last changed. The time format is HH:MM:SS.

Last Update User (Protected)

A 3-position field that displays the initials of the user who created or last changed the information on this screen.

NCPDP Outbound Parms Maintenance Screen EDIM84G

Purpose

The NCPDP Outbound Parms Maintenance screen allows you to designate the processing options that will be in effect when the NCPDP Outbound Post-Processor program runs. You need to indicate the maximum record size for the output records being generated, as well as the compression level.

How to Access

Access the NCPDP Outbound Parameters screen from the Additional Shell Steps Maintenance screen, by typing **6** in the "Transfer to" field and pressing **PF5=Transfer**.

Screen Example

The following example illustrates the NCPDP Outbound Parameters screen.

```
EDIM84G __________     NCPDP OUTBOUND PARMS MAINTENANCE         XXX  06/01/2011
                                                                      12:00:00
Path ID.............:  001N  OUTBOUND TO MAILBOX EXAMPLE
Outbound Flow

  NCPDP Reformat Parameters:

     Record Length..:  00000
     Compress.......:  T         (F=Full,  T=Transmission)


     Last Update Date: 06/01/11
                 Time: 12:00:00
                 User: XXX









Enter PF1=Help            PF3=Exit PF4=Dir               PF6=Shell
                        PF9=Add PF10=Updt PF11=Del
```

Function Key Descriptions

Note: Standard function keys, such as **PF1=Help**, **PF3=Exit**, **PF7=Bwd**, **PF8=Fwd**, **PF9=Add**, **PF10=Updt, PF11=Del, PF12=Cancel**, and **PF15=Logoff**, as well as the **Enter** key, are defined in Chapter 1 of this guide, *Getting Started*.

Enter	Refreshes the NCPDP Outbound parameters screen display with the saved field values for the Shell path designated in the Path ID field.
PF4=Dir	Displays the Path Options Directory screen.
PF6=Shell	Displays the General Shell Path Maintenance screen.

Field Descriptions

Note: Fields that are display-only contain the statement "(Protected)" next to the field name in the documentation. Fields in which you *must* type a value contain the statement "(Required)" next to the field name in the documentation.

(Jump Code)

A 10-position alphabetic or numeric field containing the jump code for this screen. A screen's jump code is displayed automatically in the Jump Code field for that screen.

To *jump* to another screen, press **Home**, type the jump code of the screen to which you want to jump, and press **Enter**.

See the "Jump Codes" section in Chapter 1 of this guide for further information on using jump codes.

Path ID

A 4-position alphanumeric field designating the path number and suffix for the parameters defined. The suffix is always N and the three-digit path number corresponds to the numeric value in the Path ID field on the General Shell Path Maintenance screen.

(Path ID Description)

A 40-character alphanumeric field containing the description for this path.

NCPDP Reformat Parameters

Record Length

A 5-position numeric field that designates the maximum record size for the outbound data. Valid values are **00001** – **32760**.

Compress

A 1-position alphabetic field that designates the level of compression to be applied to the outbound data. Valid values are:

F	=	Full compression includes batch envelopes.
T	=	Transmission compression does not include batch envelopes.

Last Update Date (Protected)

An 8-position field that displays the date on which the information on this screen was created or last changed. The date format is MM/DD/YY.

Last Update Time (Protected)

An 8-position field that displays the time at which the information on this screen was created or last changed. The time format is HH:MM:SS.

Last Update User (Protected)

A 3-position field that displays the initials of the user who created or last changed the information on this screen.

Chapter

4

Program Descriptions

Overview

This chapter contains detailed descriptions of Sterling Gentran:Structure files, processing, programs, and reports. Its purpose is to enable you to familiarize yourself with the system, its terminology, and its functionality. This chapter contains the following topics:

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Inbound Flow

Introduction

This section illustrates and describes the inbound flow through Sterling Gentran:Structure, to provide context for the program descriptions that follow.

Illustration

Figure 4.1 illustrates the inbound flow through Sterling Gentran:Structure system components. It shows fixed-format, mixed-format and variable format EDI data. The numbers in the illustration correspond to the steps below the figure that describe the flow.

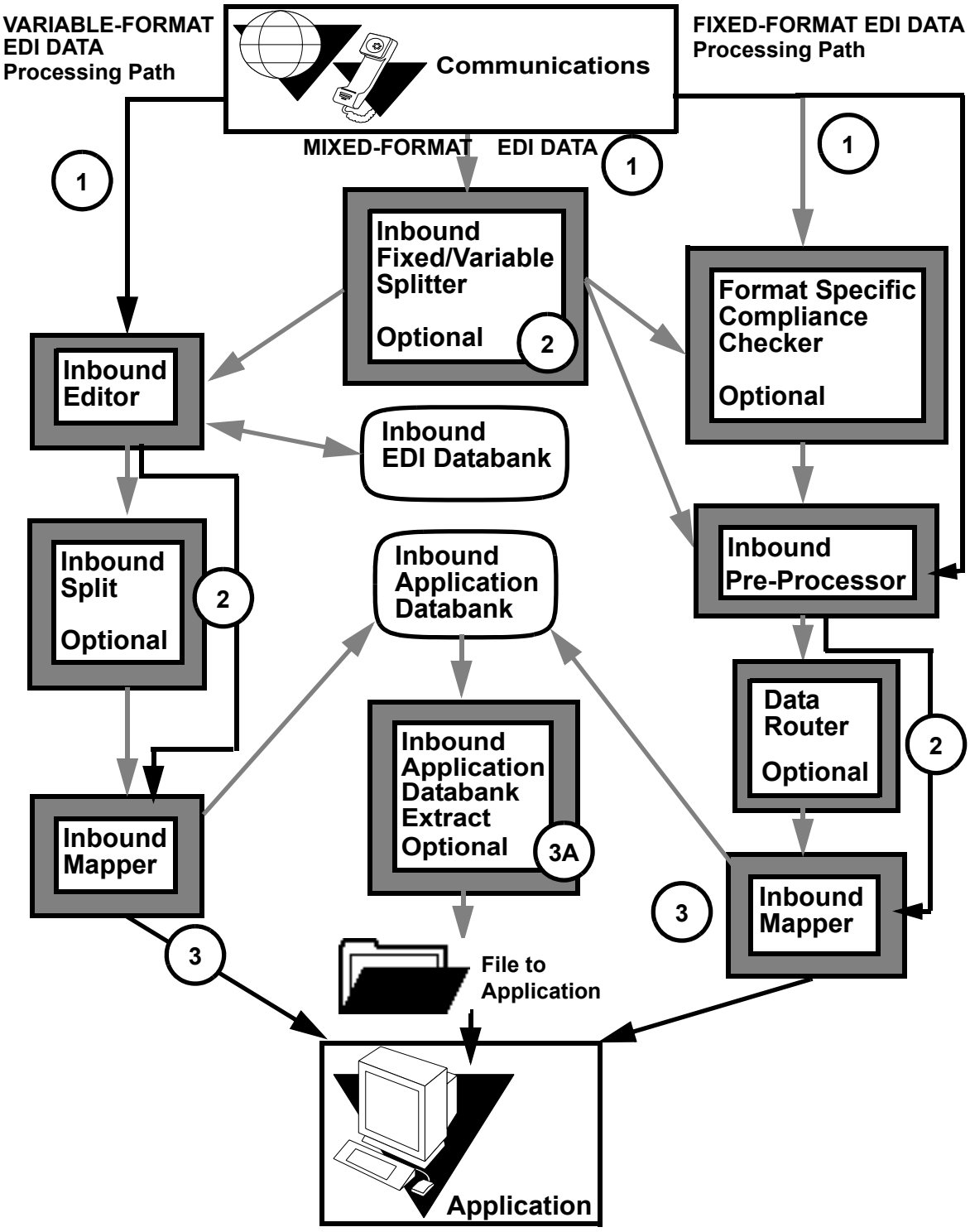


Figure 4.1 Inbound Flow Through Sterling Gentran:Structure System Components

The following table describes the inbound flow through Sterling Gentran:Basic using Sterling Gentran:Structure.

Stage	Description		
	Variable Format Data	**Mixed-Format Data**	**Fixed-Format Data**
1	The system sends the data from Communications to the Inbound editor.	The system sends the data from Communications to the Inbound Fixed/Variable Splitter to be separated by format type.	The system sends the data from Communications to the Format Specific Compliance Checker, if used, or directly to the Inbound Pre-processor.
2	If the Inbound Splitter is used, the system passes the data to the Splitter, and then to the Inbound Mapper. If the Splitter is not used, the system passes the data directly to the Inbound Mapper.	• The Inbound Fixed/ Variable Splitter: • Sends the variable-format data to the Inbound editor. The data continues on the variable format data path. • Sends the fixed-format data to the Compliance Checker, if used, or directly to the Inbound Pre-processor. The data continues on the fixed-format path.	The system sends the data from the Pre-processor to the data router, if used, or directly to the Inbound Mapper.
3	The Inbound Mapper sends the file to the Application or to the Inbound Application databank (if used – See step 3A).		The Inbound Mapper sends the file to the Application or to the Inbound Application databank (if used; see Stage 3A).
3A	(Optional) The Inbound Application Databank Extract program sends the data to the Application.		(Optional) The Inbound Application Databank Extract program sends the data to the Application.

Inbound Pre-Processing Program EBDI083

Purpose

The Inbound Pre-Processing Program (EBDI083) supports mapping from fixed-format standards by duplicating some of the critical functionality that is present in the Inbound Editor Program (EBDI001). This program replaces the Inbound Editor Program in the inbound processing flow for fixed-format standards.

The Inbound Pre-Processing Program processes as input a fixed-format standard that the user has received from a trading partner or internal division. It is the responsibility of the user to determine that all of the data presented to this program is a fixed-format standard that is defined to the Sterling Gentran:Basic online standards files. The Inbound Fixed/Variable Split program (EBDI094) can be used to segregate some types of this data.

The Pre-Processing program allows databanking of fixed-format data. The system stores the records on the Inbound Application Databank; you can view them using screens accessible via the Databank Menu.

The program generates an output file that contains the original input data with ###MAP, ###MP2, ###MP4, ###MP5, and ###MP6 records inserted into it. The format and placement of these special records is explained later.

The Inbound Mapping program (EBDI041) processes the output file.

The system writes data that cannot be processed to a suspense file.

Files Used

Input

The system uses the following files as input.

Filename	Description
SYS003	Fixed-Format EDI Data file This file contains the user's fixed-format EDI data. It can be fixed-blocked or variable-blocked and can have a logical record length up to 32760 bytes.
USRENV	User-Envelope Definition file This VSAM KSDS file contains definitions for all of the user-defined envelopes that the program might encounter while processing the input data. The program loads information from this file for all envelopes that are defined for inbound processing.
SYS030	Parameters file This file contains the parameters used for processing the data through the program. The program treats an invalid or unidentified parameter input card as a fatal error.
SYS095	Partner Profile Cross-Reference (Partner/Qualifier mode ONLY) The system uses this VSAM KSDS file to obtain a valid Partner ID and User ID when the partner and user information is being extracted from the incoming data.
SYS090	Partner Profile The system uses this VSAM KSDS file to obtain the processing parameters for a specific trading partner or user.
EDICFG	System Configuration file The program uses this file to determine system level processing options for base and add-on features of Sterling Gentran:Basic.
ERRCTL	Error Message and Control file Obtains the message text for error report processing.
EDIPREL	Partner Relationship Cross Reference file (Relationship mode ONLY) The program cross-references EDI IDs to User/Partner IDs.
EDISVER	Standard Version file This file is used to obtain standard version agency.

Output

The system uses the following files as output.

Filename	Description
SYS004	Intermediate file This file contains the data that was in the original input file, as well as ###MAP, ###MP2, ###MP3, ###MP4, ###MP5, and ###MP6 records. It is a variable-blocked file with a logical record length of 32760 bytes. The lengths of the actual records are the lengths of the records read.
SYS099	Suspense file This file contains data that could not be processed because of incomplete Partner, Version, User, or Transaction Set information. The file should have the same DCB information as the input file.
SYS005	Audit Trail This file is a report that lists all errors encountered during processing.
SYS006	Summary report This file is a report that shows all of the parameters used for processing and provides the following counts: • Input records read • Output records written • Map records written (includes MAP, MP2, MP3, MP4, MP5, and MP6 records) • Interchange headers read • Group headers read • Transaction headers read The system also prints the return code for the program.
EDIIAA	Inbound Application Directory This file stores incoming fixed-format data audit information.
EDIIAS	Inbound Application Message Store This file stores incoming fixed-format data.
EDIIEL	Inbound EDI/Application Link file This file stores link information for fixed-format and Application data generated from the mapper.
EDILOG	Log Report file.

Parameter Descriptions

Record Format (Mandatory)

FIXED The input file is fixed-block format.

VARIABLE The input file is variable-block format.

Record Length (Mandatory)

A 5-character numeric field to indicate the record length of the input file. The RDW (record descriptor word) for variable-blocked files should not be included in the length value. Valid values are up to **32760** for fixed-format files and **32752** for variable-format files.

Partner ID (Optional)

A 1- to 35-character field (15-character for Relationship mode) that identifies the Partner ID to use for all data received in this run. The system ignores any partner information contained on the envelopes. When this parameter card is supplied, a Partner value is required.

Note: The Partner Cross-Reference file is not accessed during the Partner ID Look-Up when it is supplied as an input parameter.

Partner Qualifier (Optional)

A 1- to 4-character field that identifies the Partner ID Qualifier to use for all data received in this run. Any partner information contained on the envelopes is ignored. The Partner ID parameter is required if the Partner Qualifier is supplied.

User ID (Optional)

A 1- to 35-character field (15-character if trading profile mode is Relationship) that identifies the User ID to use for all data received in this run. The system ignores any user information contained on the envelopes. When this parameter card is supplied, the User ID field must not contain spaces. The Partner Cross-Reference file is not accessed during the User ID Look-Up logic when the User ID field is supplied as an input parameter.

User Qualifier (Optional)

A 1- to 4-character field that identifies the User ID Qualifier to use for all data received in this run. The system ignores any user information contained on the envelopes. The User ID parameter is required if the User Qualifier is supplied.

Version ID (Optional)

A 1- to 12-character field followed by the three-character Agency, that identifies the Standard Version ID to use for all data received in this run. The system ignores any version information contained on the envelopes. If this parameter card is supplied, the Version ID field and agency field must not contain spaces.

Transaction ID (Optional)

A 1- to 6-character field that identifies the Transaction Set ID to use for all data received in this run. The system ignores any transaction information contained on the envelopes. If this parameter card is supplied as input, the Transaction Set ID field must not contain spaces.

Envelope Level (Optional)

This parameter specifies the level of enveloping that the fixed-format standard uses. Hold areas are cleared when an envelope at the specified level is received. Valid values are:

TRANSACTION (Default)
GROUP
INTERCHANGE

Application By (Optional)

This parameter instructs the program where to look for Inbound Transaction Level Data Separation records. The system uses these records to specify the application to be loaded by the Inbound Mapper so that the 'In-stream' option can be used.

NONE Data Separation is not defined (Default).
USER Data Separation is established underneath the User.
PARTNER
Data Separation is established underneath the Partner.

Data Envelope (Optional)

This parameter instructs the program to write the envelope segments as envelopes and data segments. This allows elements in these segments to be mapped to application fields when you execute the Inbound Mapper (EBDI041). Valid values are:

YES Write the envelopes as data segments.
NO Do not write envelopes as data segments (this is the default value).

Databank (optional)

This parameter instructs the program on the level of databanking to use for the incoming Fixed-Format data. Valid values are:

NO No Databanking (this is the default value).

DIR Only the directory portion of the databanking is used.

FULL The directory and message store facilities are used.

Note: The default value is no Databanking.

Detail Reports (optional)

This parameter instructs the program on the level of detail to print in the Audit Trail report. Valid values are:

ON Echo the incoming and outgoing data.

OFF Only print error messages (this is the default value).

User Reference (Optional)

This parameter is for use in conjunction with the Inbound Pass-Thru feature on the Inbound Mapper program. The User-Reference parameter specifies the user-reference key for the application document on the Application Databanks.

Position	Segment	Description
1 – 15	User Reference	A 15-position field that contains the value 'User Reference.'
16 – 25	Segment ID	A 10-position field to specify the segment ID of the record from which the application user-reference field can be found.
26 – 30	Segment ID Starting Position	A 5-position numeric field used to define the starting position of the segment ID field in the record where the application user-reference field can be found.
31 – 32	Segment ID Length	A 2-position numeric field used to define the length of the segment ID field in the record where the application user-reference field can be found.
33 – 37	User Reference Starting Position	A 5-position numeric field used to define the starting position of the application user-reference field in the EDI data record.
38 – 39	User Reference Length	A 2-position numeric field used to define the length of the application user-reference field in the EDI data record.

Processing Description

Initial Tasks

The following table describes the initial phase of inbound processing.

Stage	Description
1	The system opens the Audit Trail file, the Summary Report file, the Error Message file, and the Parameter file and validates all parameters. If the system detects any errors, it issues an error message, sets the return code to 16, and terminates the program.
2	The system opens the rest of the files. If it detects any errors, it issues an error message, sets the return code to 16, and terminates the program.
3	The system reads all of the User-Envelope Definition records and stores the information contained in the records in an internal table. The system loads the records into the table if the Envelope Level is set to 'Begin-Interchange,' 'Begin-Group,' or Begin-Transaction,' 'End-Interchange,' 'End-Group,' 'End-Transaction,' AND the Direction-Indicator is *not* set to 'O' (outbound). **Note:** If no defined envelope records match the selection criteria, the system issues an error message, sets the return code to 16, and terminates the program.
4	The system reads the first input record. If it finds no input, it issues an error message, sets the return code to 8, and terminates the program.

Envelope Processing

Stage	Description
1	• If the system reads the record that is a beginning envelope (search against the Envelope Definition Table), the system moves the record to a hold area. **Note:** No special processing occurs at this time for ending (trailer) envelopes. • The system defines multiple hold areas (at this time there are five). • A counter describes the number of envelopes currently held. • The system associates a length field to each hold area, which describes the length of the record that was read. • The system also associates a flag with each hold area to indicate whether the held envelope has been written to the output file.
2	The system saves the input envelope Segment ID in the envelope hold table. If the system receives another envelope having the same Segment ID, it replaces the previous envelope in the table. At the same time, the system resets the 'Write Flag' for this segment.

Stage	Description
3	If the envelope is a beginning envelope that matches the level specified in the parameter file or the default level, the system clears hold areas associated with User, Partner, Version, and Transaction Set IDs. The system also clears all envelope records being held at this time.
4	• If the user-envelope definition record has a defined User ID, Partner ID, Version ID, or Transaction Set ID, the system extracts appropriate fields from the current envelope and moves them to hold areas associated with this field. • If a default version or transaction set is associated with the envelope definition, the system holds it also. Since there is only one level of hold areas, values extracted from lower-level envelopes overlay those from higher-level envelopes. If the extracted value is spaces, it does not overlay a previously extracted value. **Note:** The system extracts values from the input segment only when the value was not supplied as an input parameter or defined as a default value on the user-envelope definition record.
5	If the user-envelope definition record has defined Sender ID, Receiver ID, Reference Number, or Generic Element 1 through 10 fields, the system extracts these and stores them in the corresponding areas of the ###MP4, ###MP5, and ###MP6 records.
6	If a user-reference parameter has been specified, the system pulls the application user-reference key from the input data and puts it on a ###MP2 record.
7	If this envelope is a beginning interchange envelope, the system increments the Interchange Header counter. The system increments the group and transaction header counters when the respective envelopes are received. Processing continues until the system reads a record that is not defined as a beginning envelope.
8	The system writes the type of envelope to the “key” portion of the output record; otherwise, the system performs no special processing for ending envelopes.

Post-Envelope Processing – User/Partner Look-Up

The first thing to determine is what field the system will use for the key on the Partner Profile Look-Up. Depending on which of the partner profile fields are loaded, the system will perform the look-ups as described below.

Partner Determination (Partner/Qualifier and Mixed Modes)

The following describes the method Sterling Gentran:Structure uses to determine the partner when the trading profile mode is Partner/Qualifier or Mixed.

Method	Description
Partner supplied on input parameter	The system uses the ID specified on the parameter to look up the partner directly on the partner profile. If the system does not find the partner's Header record, it issues a message, sets the return code to 16, and terminates processing. Because the partner specified on the parameter record applies to the entire run, a failed Look-Up implies that no partner ID will be found for any documents in the run. This is a fatal error. **Note:** The Partner Cross-Reference file is not used when the partner is specified on the parameter record.
Extracted Partner from envelope	If no ID is specified on the parameter, the system examines the partner hold area. If this area is spaces, the system suspends the input document. See "Suspending an Input Document" for more information. The system issues an error message and sets the return code to 4.
Partner Header Record Look-Up	If the Partner ID hold area is not spaces, the system uses this ID to access the Partner Cross-Reference file. If this access is successful, the system uses the Alias ID to access the Partner Profile Header record. If this access is not successful, the system reads the Partner Profile Header record using the original ID as the key. If the system finds an alias ID (including both Partner ID and Qualifier), it uses this ID in all subsequent partner profile reads as well as loading it into the ###MAP records. If the system does not find the Partner Profile Header record, it suspends the document, issues an error message, and sets the return code to 4.
Partner Control Record Look-Up	The system reads the Partner Profile Control record and moves the resolved Partner ID to the Partner ID portion of the key. If CFG-multiple envelope flag is set to Y, then the system moves GEN to the multiple envelope ID of the Control Record. If the Partner Lookup is unsuccessful, the system tries again, with spaces in the Multiple Envelope ID. If the system still doesn't find the Control Record, it suspends the document, issues an error message, and sets the return code to 4.

Method	Description
Partner Transaction Record Look-Up	The next step is to read the Partner Profile Transaction record. If the Transaction Set ID was specified on the parameter, the system uses that ID for the look-up key. If the ID was not supplied, the system uses the Transaction Set ID that was specified as the envelope default. Finally, if neither of the previous IDs are available, the system extracts the Transaction Set ID from the data if possible. If none of these values are loaded, the system suspends the document, issues an error message, and sets the return code to 4. **Note:** The Transaction Set ID record does not have to exist on the Partner Profile. The system reads the Partner Profile Transaction record at this time. If the read is successful, system saves the Inbound Translation ID, Functional Group ID, Inbound Application Databank Level, and the Test Transaction Indicator in a hold area. The default Transaction record does not need to be accessed if the specific Transaction record is not found. The system does not issue an error if the Transaction record is not found; the fields are merely loaded with spaces.
Partner Data Separation Record Look-Up	If the Application By parameter is set to Partner, an Inbound Data Separation record is accessed at the transaction level using the Transaction Set ID used above. If the read is successful, the Inbound Application field is saved in a hold area. If the Partner read is not successful or the Inbound Application field is not greater than spaces, the document is suspended, an error message issued, and the return code is set to 4.

Partner Determination (Relationship Mode)

The following table describes the method Sterling Gentran:Structure uses to determine the partner when the trading profile mode is Relationship.

Note: If the trading profile mode is Relationship, the Partner Header record, with both user and partner on the key, must be on the partner profile.

Method	Description
Partner Profile Look-Up	The system performs the Partner Profile Look-Up in the same manner as the Partner Profile Look-Up for the sender. This action includes reading the Partner Relationship Cross-Reference file if the User/Partner ID was not supplied as an input parameter. If the system finds an alias, it uses it as the User/Partner ID for all subsequent partner profile reads and places it on the ###MAP records.
User/Partner ID supplied as an input parameter	If the system does not find the ID on the partner profile, it issues a message, sets the return code to 16, and terminates processing.
Partner Header Record Look-Up	If the User ID/Partner ID hold area is not spaces, the system uses this ID to access the Partner Cross-reference file. If this access is successful, the system uses the Alias ID to access the Partner Profile Header record. If this access is not successful, the system reads the Partner Profile Control record using the original ID as the key. If the system finds an alias ID, it uses this ID in all subsequent partner profile reads as well as loading it into the ###MAP records. If the system does not find the Partner Profile Header record, it suspends the document, issues an error message, and sets the return code to 4.
Partner Control Record Look-Up	The system reads the Partner Profile Control record and moves the resolved ID to the User ID/Partner ID portion of the key. If CFG-multiple envelope flag is set to Y, then the system moves GEN to the multiple envelope ID of the Control Record. If the Partner Lookup is unsuccessful, the system tries again, with spaces in the Multiple Envelope ID. If the system still doesn't find the Control Record, it suspends the document, issues an error message, and sets the return code to 4.

If the Application By parameter is set to User, an Inbound Data Separation record must exist for that user for the transaction set being processed. This Partner Profile Look-Up is independent of the trading profile mode setting.

If either record is required and not found, the system suspends the document, issues an error message, and sets the return code to 4.

If the system finds the Inbound Data Separation record but the Inbound Application field is not greater than spaces, the system suspends the document, issues an error message, and sets the program return code to 4.

Post-Envelope Processing – Suspending a Document

In the event that any required information is missing from the envelopes or the partner profile, the system must suspend the document. The system writes the document to the Suspense file exactly as it was read from the input file with the following exception: If multiple levels of envelopes are being held when the system determines to suspend a document, the system writes all of the held envelopes to the Suspense file with the document. This action allows the document to be reprocessed as a single entity.

###MAP records are not written to the Suspense file.

Post-Envelope Processing – Writing a Document

If the document is valid, the system writes it to the output file.

Formatting the MAP records. The system writes special ###MAP, ###MP2, ###MP3, ###MP4, ###MP5, and ###MP6 records to the output file. The Inbound Mapper uses these special format records. The ###MP4, ###MP5, and ###MP6 records contain information that is specific to inbound fixed-format processing.

Writing the data. The format of the output file is similar to that of the Inbound editor program, in that each record is prefixed with a 15-byte key. The record count is placed in the first 10 bytes of the key. The next two bytes contain the characters 01. The last three bytes are formatted as follows:

- If the output record is an envelope, a special designator indicates the type of envelope that is loaded in the field. For example, if the envelope is a beginning interchange envelope (type BI), the characters '#BI' are loaded.
- If the output record is any other type of record, '***' is loaded to the field.

Once the MAP records have been formatted, the data can be written to the output file. The system first writes envelopes that have been held. The system examines each of the hold area "write flags." If the system determines that the envelope has not been written, it writes it to the output file. The system sets the "write flag" at this time and sets the length of the envelope written to the hold area length value.

Once the envelopes have been written, the system writes the formatted ###MAP, ###MP2, ###MP3, ###MP4, ###MP5, and ###MP6 records. These records have a length of 400 bytes.

At this point, the program goes into a read/write mode until it encounters another beginning envelope. The program writes each record with the length of the record as read.

Note: The System writes ###Map records only when they contain significant information (blank or default records are not written).

Final Tasks

If the count of all of the records written is equal to zero, the system sets the return code to 8 and issues a message.

The system writes the summary report.

The system closes all files.

Inbound Mapping Program EBDI041

Purpose

The Inbound Mapping program optionally processes fixed-format standard input in addition to variable-format standard input. A single execution of the mapper processes either fixed-format input that was generated by the Inbound Pre-Processing program (EBDI083) or variable-format data that was generated by the Inbound Editor program (EBDI001). A parameter instructs the mapper as to the format of the data. Regardless of format, the system reads the input data from the SYS004 dataset.

Data can be directed to the Application Data file and/or the Inbound Application databank regardless of input format.

Inbound Mapping Program Flow

Figure 4.2 illustrates the current file usage of the Inbound Mapping program.

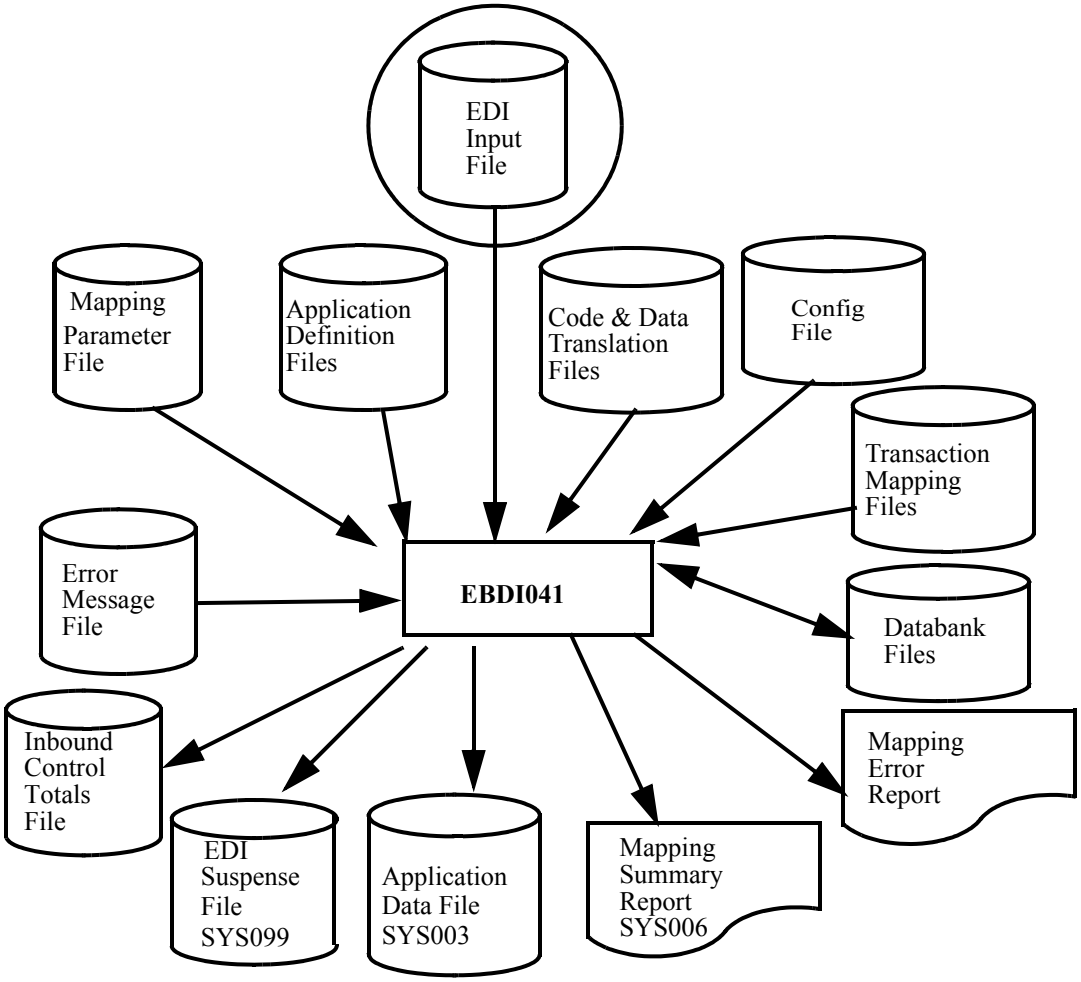


Figure 4.2 File Usage of the Inbound Mapper

Files Used

The following files have been added or modified to support fixed-format standards.

See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 Technical Reference Guide* for complete information about this program.

Input

The following files are used as input.

Filename	Description
SYS001	Parameters file This file contains the parameters that drive the Inbound Mapping process. Two parameters are specific to Sterling Gentran:Structure: • **Input Format Type** (Sterling Gentran:Structure only) This parameter describes whether the input file (SYS004) is variable-format and was generated by the Inbound Editor program (EBDI001) or is fixed-format and was generated by the Inbound Pre-Processing program (EBDI083). If the input is variable, nothing must be coded for the parameter. If the input is fixed, the character 'F' must be coded. This parameter starts in column 46 with a length of one character. • **Sterling Gentran:Structure Databank Level** The second parameter resides on mapping parameter record # 4. This parameter controls the databanking for Sterling Gentran:Structure data. This parameter indicates to the Mapper what level of databanking is desired. A value of '0' indicates that no databanking is desired. A value of '1' indicates directory and message store databanking is requested. A value of '2' indicates that directory-level only is desired. This parameter starts in column 3 of record 4, with a length of one character.
EDICFG	System Configuration file This file is used by the program to determine system level processing options for base and add-on features of Sterling Gentran:Basic.
SYS004	Input file This file will contain either the data generated by the Inbound editor or the Inbound Pre-Processor. If the source of the data is the Inbound Pre-Processor, the Input Format Type parameter described above must be set to 'F.'

Parameters File Layout – Inbound (SYS001)

The following tables describe the inbound parameters file layout.

Record 1

Position	Field Content	COBOL Picture	Format	Length	Description
001 – 010	Application Data ID	X(10)	AN	10	The name assigned to the definition of the Application Data file, or ##INSTREAM to specify application parameters.
011 – 011	EDI Data Print Switch	X(01)	AN	01	**Y** – Instructs the Mapper to print the first 125 characters of each record read and each record generated.
012 – 012	Forced Abend Switch	X(01)	AN	01	**Y** – Instructs the Mapper to abend if any errors are encountered during execution.
013 – 019	Start Process User Exit	X(07)	AN	07	The name of a user written program to be executed after all Sterling Gentran:Basic files have been opened.
020 – 026	End Process User Exit	X(07)	AN	07	The name of a user written program to be executed after all Sterling Gentran:Basic files have been closed.
027 – 027	Application Decimal Notation	X(01)	AN	01	A comma (**,**) instructs the Mapper to interpret a comma as a decimal point in the application file.
028 – 028	Application File Type	X(01)	AN	01	If using Instream application parameters, enter **V** in this field to indicate the application file is variable; enter **F** in this field to indicate a fixed format.
029 – 032	Application File Length	9(04)	N	04	If using Instream application parameters, code the maximum record length of the application file. Do not include 4 bytes for RDW for variable files.
033 – 033	Alternate Application Real Switch	X(01)	AN	01	**Y** – Instructs the Mapper to right justify application real numbers.
034 – 034	Return Code Switch	X(01)	AN	01	If = **Y**, generate return code.
035 – 035	NTE Float Switch	X(01)	AN	01	**Y** – instructs the Mapper to process all NTE segments received in a section with one definition.

Position	Field Content	COBOL Picture	Format	Length	Description
036 – 036	Databank Configuration Switch	X(01)	AN	01	**0** – No Databank **1** – Full Databank **2** – Directory Only Databank.
037 – 037	Databank Processing Level Switch	X(01)	AN	01	**0** – No Databank **1** – Full Databank **2** – Directory Only Databank. **3** – Partner Databank Level
038 – 039	Filler	X(02)	AN	02	Not used
040 – 040	Filler	X(01)	AN	01	Not used
041 – 041	Filler	X(01)	AN	01	Not used
042 – 042	Partner Print Switch	X(01)	AN	01	**0** – Do not print user/partner information when partner is loaded **1** – Print partner information when partner is loaded.
043 – 043	Write to Output File Switch	X(01)	AN	01	**0** – Write application to an output file in addition to the message store if requested. **1** – Do not write to the output file.
044 – 044	Document Tracking Switch	X(01)	AN	01	**1** – Print an entry on the Audit Trail for each document in error in the run. **2** – Print an entry on the Audit Trail for each document processed in the run.
045 – 045	Support Quote Switch	X(01)	AN	01	**Y** – Execute additional program logic to allow a single quote in reserved word constants and literal constants.
046 – 046	Input Format Type	X(01)	AN	01	Used for Sterling Gentran:Structure only. **F** – Input to this program was generated by the inbound Sterling Gentran:Structure pre-processor. **V** or **blank** – Input to this program was generated by the Inbound editor (default).
047 – 051	Filler	X(05)	AN	05	Not used

Position	Field Content	COBOL Picture	Format	Length	Description
052 – 052	Mandatory Segment	X(01)	AN	1	**Y** – Indicates that the first segment of every loop received is mandatory and is present in the incoming EDI data. This aids in pulling the correct segment from the map when the map contains the same Segment ID multiple times (used mainly for 837 documents).
053 – 054	Filler	X(02)	AN	02	Not used
055 – 055	User Exit Version	X(01)	AN	01	**1** – Use the version 1 call blocks for user exits. **2** – Use the version 2 call block for user exits.
056 – 062	Filler	X(10)	AN	10	Not used
063 – 063	Viewpoint User Tracking (Sterling Gentran:Viewpoint Tracking Management only)	X(01)	AN	01	**0** – Viewpoint tracking is not performed by a user application tracking program. **1** – Viewpoint tracking is performed by a user application tracking program.
064 – 076	Filler	X(13)	AN	13	Not used
077 – 077	Verify Map Version	X(01)	AN	01	**Y** – Instructs the Mapper to verify the Version ID used to compliance check the incoming document matches the version ID found on the selected partner-specific map. If the Versions IDs do not match, the document will be suspended.
078 – 080	Filler	X(03)	AN	03	Not used

For more information about the Inbound Mapping program, see the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 Technical Reference Guide*.

Inbound Fixed/Variable Split Program EBDI094

Purpose

This program reads an EDI data file and splits it into the following categories:

- Fixed-format COMPORD data
- Fixed-format GM (CISCO) data
- Fixed-format GENCOD data
- Other fixed-format data
- Variable-format EDI data

The program writes all output as 80-byte fixed records.

This program processes as input 80-byte records. It determines the type of data and writes the records to the appropriate output file.

Either the Inbound Editor program (EBDI001 – variable-format data) or the Inbound Pre-Processor program (EBDI083 – fixed-format data) processes the output files.

Inbound Fixed/Variable Split Program Flow

Figure 4.3 illustrates the input and output files for this program.

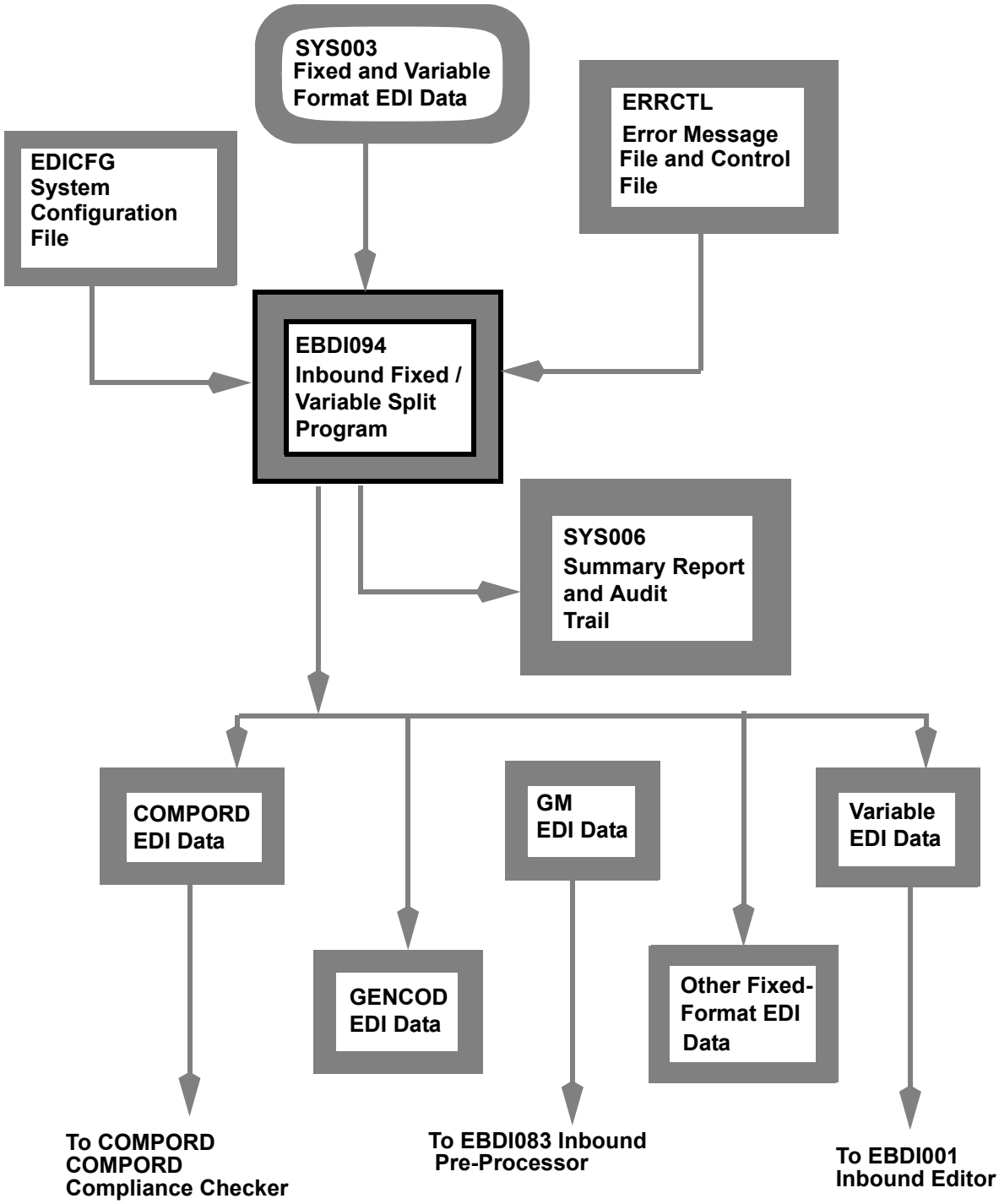


Figure 4.3 Inbound/Variable Split Program Flow

Files Used

Input

The following files are input.

Filename	Description
SYS003	Fixed-Format and Variable-Format EDI Data file This file contains 80-byte fixed-input records wrapped with or without envelopes.
ERRCTL	Error Message file and Control file The system uses this VSAM file to obtain the message text for error report processing.
EDICFG	System Configuration file The program uses this file to determine system level processing options.

Output

The following files are output.

Filename	Description
COMPORD	Fixed COMPORD file This file will contain the 80-byte fixed records wrapped with COMPORD envelopes.
EDIDAT	EDI Variable Data This file will contain 80-byte fixed records of data wrapped with Standard EDI envelopes. Any GM headers wrapped around the input data are not written to the output file.
GENCOD	Fixed GENCOD file This file will contain 80-byte fixed records of data wrapped with GENCOD envelopes.
GMDATA	Fixed GM file This file will contain 80-byte fixed records wrapped with GM envelopes.
OTHFIX	User-Defined Fixed Data This file will contain 80-byte fixed records of data wrapped with user-defined envelopes.
SYS006	Summary Report This file is a report to show all of the parameters used for processing and will provide the following counts: • Input records read • Output records written to each output file The report also prints any error messages issued during processing and the final program return code.

Processing Description

Initial Tasks

The program opens all files. If it encounters an error, it issues a message, sets the return code to 16, and terminates the program.

The program reads the first input record. If there is no input, the program issues a message, sets the return code to 8, and terminates the program.

Envelope Processing

Once the program has read the first input record, it determines the type of data it has received. The following envelope types cause processing decisions to be made:

Standard	Segment	Position	Value	Occur
GM	Header	1 – 4	*THS	Single
GM	Trailer	1 – 4	*TTR	Multiple – (5 max)
Variable	Header	1 – 3	BG	Single
			GS	
			ICS	
			ISA	
			SCH	
			STX	
			UNA	
			UNB	
COMPORD	Header	1 – 2	20	Single
COMPORD	Trailer	1 – 2	99	Single
GENCOD	Header	1 – 3	035	Single
GENCOD	Trailer	1 – 3	199	Single

Once the program finds a match, it writes the data to the appropriate output file (through the corresponding trailer segments). After it has written all trailer segments, it queries the next record to determine the beginning envelope type, and the cycle starts over.

GM header and trailer segments may be wrapped around fixed or variable data. The system holds the header segments until it determines the type of data that is being processed. If the data is in a variable format, the system does not write the GM header and trailer records to the output file.

If there is no match against the envelope types, the system writes the data to the ‘OTHFIX’ output file.

Outbound Flow

Overview

The programs described in this section allow fixed-format standards to be processed. The following flow charts describe the outbound flow with fixed-format standards and the Outbound Mapping program.

Outbound Flow with Fixed-Format Standards

Figure 4.4 illustrates the outbound process.

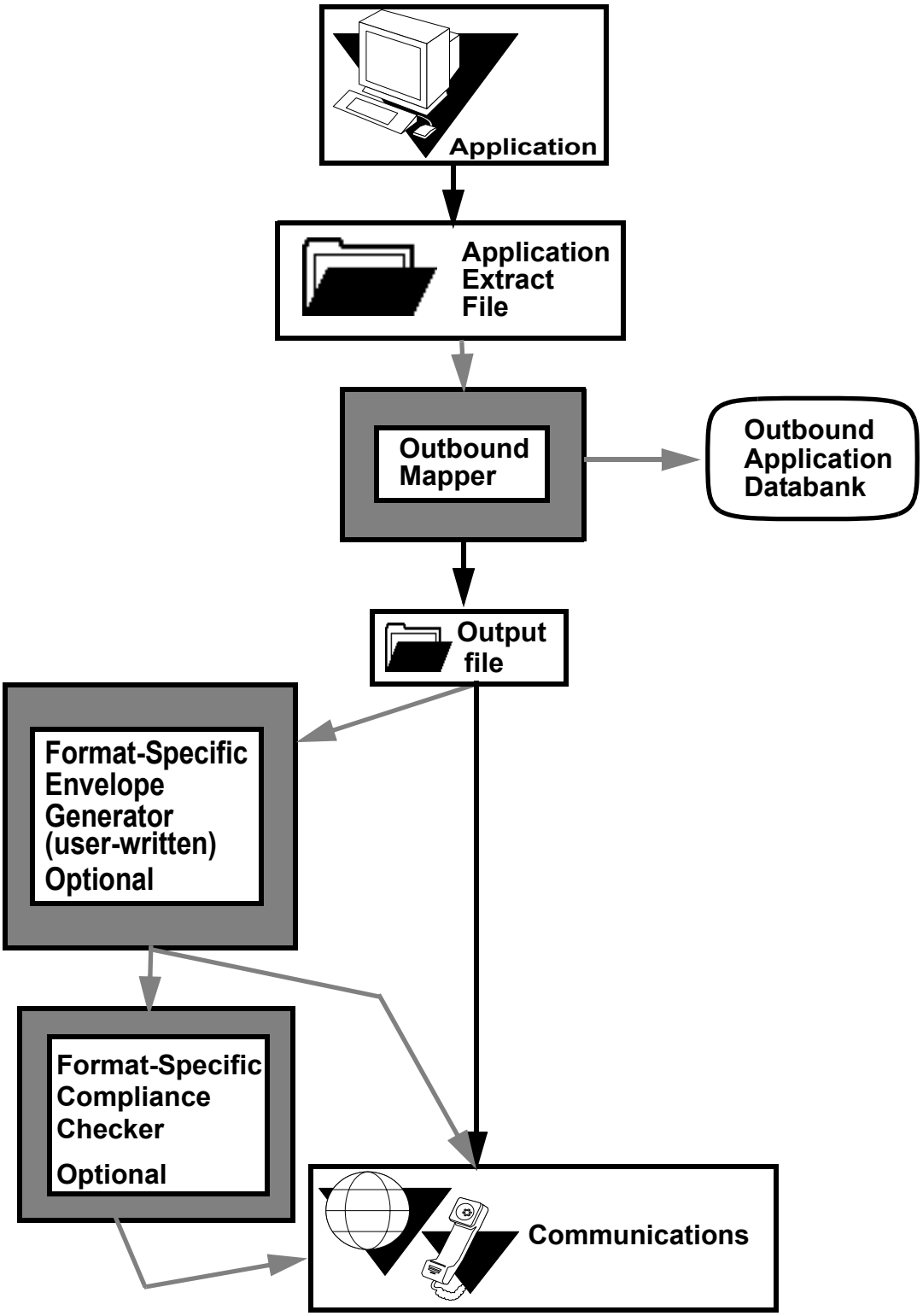


Figure 4.4 Outbound Flow with Fixed-Format Standards

Outbound Mapping Program EBDI042

Purpose

The Outbound Mapping Program optionally generates fixed-format standard output in addition to variable-format standard output. Both fixed-format data and variable-format data can be generated from a single application depending upon the receiver of the data. The program directs fixed-format output to a new dataset (SYS098). The program writes variable-format output to the SYS004 dataset.

Fixed-format data can be sent directly to communications for transmission to the trading partner, or it can be processed by optional envelope generation or compliance checking programs. These optional programs are not supplied with the system. If they are necessary for processing, they must be developed for the specific standard.

Outbound Mapping Program Flow

Figure 4.5 illustrates the outbound mapping process.

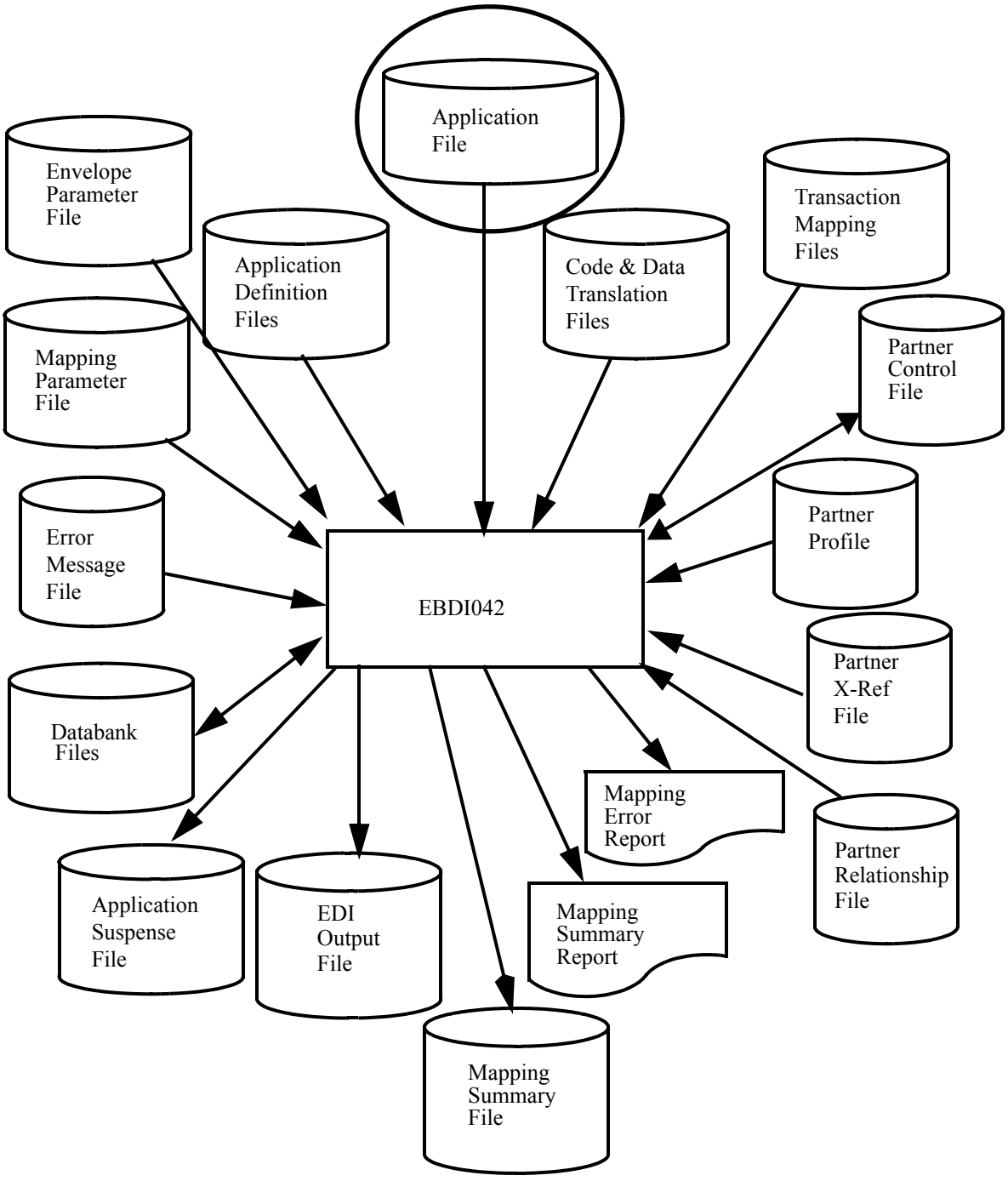


Figure 4.5 Outbound Mapping Program Flow

Files Used

Sterling Gentran:Structure includes the following files to support fixed-format standards.

See the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 Technical Reference Guide* for complete information about this program.

Input

The following files are input.

Filename	Description
SYS001	Parameters file This file contains the parameters that drive the Outbound Mapping process. There are four parameters specific to Sterling Gentran:Structure. Two parameters describe what the Fixed-Format Output file (SYS098) should look like. These parameters are: • **Fixed-Format File Type** This parameter describes whether the Fixed-Format Output file will have fixed-length or variable-length records. Valid values are 'F' to indicate fixed-length records and 'V' to indicate variable-length records. If this parameter is used, the length parameter described below is mandatory. If both of these parameters are correctly specified, the program opens the Fixed-Format Output file using the information specified in the parameters. This parameter starts in column 46 with a length of one character. • **Fixed-Format File Record Length** This parameter describes the length of the records to be generated in the Fixed-Format Output file (SYS098). For fixed-length files, it describes the record length, and for variable-length files, it describes the maximum record length. Valid values are '00010' through '32760' for fixed-length files, and '00010' through '32752' for variable-length files. If this parameter is used, the type parameter described above is mandatory. If both of these parameters are correctly specified, the program opens the Fixed-Format Output file using the information specified in the parameters. This parameter starts in column 47 with a length of five characters. All characters must be valid numeric digits.

Filename	Description
	The third parameter instructs the Mapper how to initialize numeric fields that are not mapped to. • **Initialize Numerics** This parameter tells the outbound mapper to set to zero non-packed dates and numeric data with types N0-N9 and S0-S9 if no valid value is mapped to the element. This parameter starts in column 53 with a length of one character. The fourth parameter resides on the Mapping Parameter Record #4. This parameter controls the databanking for Sterling Gentran:Structure data. • **Sterling Gentran:Structure Databank Level** This parameter indicates to the Mapper what level of databanking is desired. A value of '0' indicates that no databanking is desired. A value of '1' indicates directory and message store databanking is requested. A value of '2' indicates that directory-level only is desired. This parameter starts in column 3 of record 4, with a length of one character.

Output

The following files are used as output.

Filename	Description
SYS098	Fixed-Format Output file This file contains data that has been mapped successfully to a fixed-format standard. The field description is based on the new Fixed-Format file type and Record Length parameters. Fixed-format data can be sent directly to communications for transmissions to the trading partner or it can be processed by optional envelope generation or compliance checking programs. These optional programs are not supplied with the system. If they are necessary for processing, they must be developed for the specific standard.

Mapping Parameter Records (SYS001)

These record layouts are used by the Outbound Mapper to drive the outbound mapping process. The file is in a sequential format. The records are a fixed 80-byte length. Many of the options set in the parameter records have been described earlier in the processing section of this chapter.

Mapping Parameter Record Layout #1

The following table describes Mapping Parameter Record Layout #1.

Position	Field Content	COBOL Picture	Format	Length	Description
001 – 010	Application Data ID	X(10)	AN	10	The name assigned to the definition of the Application Data file, or ##INSTREAM to specify application parameters.
011 – 011	EDI Data Print Switch	X(01)	AN	01	**Y** – Instructs the Mapper to print the first 125 characters of each record read and each record generated.
012 – 012	Forced Abend Switch	X(01)	AN	01	**Y** – Instructs the Mapper to abend if any fatal errors are encountered during execution.
013 – 019	Start Process User Exit	X(07)	AN	07	The name of a user-written program to be executed after all Sterling Gentran:Basic files have been opened.
020 – 026	End Process User Exit	X(07)	AN	07	The name of a user-written program to be executed after all Sterling Gentran:Basic files have been closed.
027 – 027	Application Decimal Notation	X(01)	AN	01	A comma (**,**) instructs the Mapper to interpret a comma as a decimal point in the Application file.
028 – 028	Application File Type	X(01)	AN	01	If instream application parameters are used **V** – Indicates the Application file is variable **F** – Indicates a fixed format.
029 – 032	Application File Length	9(04)	ZD	04	If instream application parameters are used, code the maximum record length of the Application file. For variable records, add 4 bytes.
033 – 033	Not used				Used for inbound only
034 – 034	Return Code Switch	X(01)	AN	01	If = **Y**, generate a return code.
035 – 035	Not used				Used for inbound only

Position	Field Content	COBOL Picture	Format	Length	Description
036 – 036	Databank Configuration Switch	X(01)	AN	01	**0** – No Databank **1** – Full Databank **2** – Directory Only Databank
037 – 037	Databank Processing Level Switch	X(01)	AN	01	**0** – No Databank **1** – Full Databank **2** – Directory Only Databank. **3** – Partner Databank Level
038 – 038	Databank Reprocess Switch	X(01)	AN	01	**N** – No reprocessing **Y** – Reprocess data from application Databank.
039 – 039	Partner Read Switch	X(01)	AN	01	**0** – Read partner profile first, then check cross-reference **1** – Read cross-reference first, then get partner **2** – Read partner profile first, but pass the EDI IDs to the Outbound editor **3** – Read cross-reference first, but pass the EDI IDs to the to the Outbound editor
040 – 040	Not used	X(01)	AN	01	Not used.
041 – 041	Not used				Internal use only
042 – 042	Partner Print Switch	X(01)	AN	01	**0** – Do not print user/partner information when partner is loaded **1** – Print partner information when partner is loaded.
043 – 043	Filler	X(01)	AN	01	Used for inbound only
044 – 044	Document Tracking Switch	X(01)	AN	01	**1** – Print an entry on the Audit Trail for each document in error in the run. **2** – Print an entry on the Audit Trail for each document processed in the run.
045 – 045	Support Quote Switch	X(01)	AN	01	**Y** – Execute additional program logic to allow a single quote in reserved word constants and literal constants.
046 – 046	Standard Type	X(01)	AN	01	Used for Sterling Gentran:Structure only. **F** – Fixed-format standard. **V** or **blank** – Variable-format standard (default).

Position	Field Content	COBOL Picture	Format	Length	Description
047 – 051	Maximum Length	X(05)	AN	05	Used for Sterling Gentran:Structure only. The maximum length of a segment in the defined standard.
052 – 052	Not used				Used for inbound only
053 – 053	Initialize Numerics	X(01)	AN	01	Used for Sterling Gentran:Structure only. **Y** – Allows non-packed dates and numeric data with types N0-N9 and S0-S9 to be set to 0 if no valid value is mapped to the element.
054 – 054	Map Blank Subfield	X(01)	AN	01	**Y** – Subfields with spaces as values hold their places in the element. **N** or **blank** – (default) Spaces are compressed.
055 – 055	User Exit Version	X(01)	AN	01	**1** or **blank** – Use version 1 of the User Exit Call Block **2** – Use version 2 of the User Exit Call Block
056 – 062	Outbound Envelope User Exit	X(07)	AN	07	The name of a user-written program to execute before writing the outbound envelopes.
063 – 063	Not used				
064 – 064	Blank Partner Error Switch	X(01)	AN	01	Used with application partner enveloping. **Y** or **1** – Issue an error message and suspend the application data when the application has a blank Partner ID. **blank** – (default value) If the application has a blank Partner ID, the partner is processed using the previous Partner ID.
065 – 076	Default Outbound Version	X(12)	AN	12	Default outbound version used for each application document to resolve functional groups and transactions with the partner profile.
077 – 079	Filler	X(02)	AN	02	Not used.
080 – 080	Application Reference Load	X (01)	AN	01	**1** – Use new logic to load the Application Reference field on STX. **0** or **blank** – Use old logic to load the Application Reference field on STX.

Note: Determine databanking performance by using the combination of the Databank Configuration switch and Databank Processing Level switch.

Mapping Parameter Record Layout #2

The following table describes Mapping Parameter Record Layout #2.

Position	Field Content	COBOL Picture	Format	Length	Description
001 – 035	Default Partner ID (limited to 15 characters in the Relationship mode)	X(35)	AN	35	Partner ID used in processing all outbound data in this run. Application partner reference is ignored.
036 – 039	Default Partner ID Qualifier (not used in the Relationship mode)	X(04)	AN	04	Partner ID/Qualifier used in processing all outbound data in this run. Application partner reference is ignored.
040 – 074	Default User ID (limited to 15 characters in the Relationship mode)	X(35)	AN	35	User ID used in processing all outbound data in this run. Application User reference is ignored.
075 – 078	Default User ID Qualifier (not used in the Relationship mode)	X(04)	AN	04	User ID/Qualifier used in processing all outbound data in this run. Application User reference is ignored.
079 – 079	CNTL Record Pass Thru Switch	X(01)	AN	01	**Y** – Instructs the Mapper that the application contains CNTL records at the interchange, group, and transaction level. **I** – Instructs the Mapper that the application contains CNTL records at the interchange level.
080 – 080	Envelope Generation Switch	X(01)	AN	01	**Y** – Generate CNTL records **N** or **blank** – Generate envelopes

Mapping Parameter Record Layout #3

The following table describes Mapping Parameter Record Layout #3.

Position	Field Content	COBOL Picture	Format	Length	Description
001 – 003	Multiple Envelope ID	X(03)	AN	3	Interchange Envelope ID used in key of control, group, and transaction records on the partner profile. **Note:** GEN is the only valid value for Sterling Gentran:Structure.
004 – 015	Default Interchange Version	X(12)	AN	12	Default interchange version used for each application document to resolve the control partner profile. **Note:** This is not supported for Sterling Gentran:Structure.
016 – 080	Filler	X(65)	AN	65	Not used.

Mapping Parameter Record Layout #4

The following table describes Mapping Parameter Record Layout #4.

Position	Field Content	COBOL Picture	Format	Length	Description
001 – 001	Filler	X(01)	AN	1	Not used.
002 – 002	Spaces in UNB:07	X(01)	AN	12	**Y** – Always fill application reference (UNB:07) with spaces.
003 – 003	Sterling Gentran:Structure Databank Level	X(01)	AN	1	**0** – No databanking **1** – Full databanking **2** – Directory databanking only
004 – 004	Interchange Version Off	X(01)	AN	1	**Y** – Do not use interchange version for this run.
005 – 005	Group Version Off	X(01)	AN	1	Y – Do not use group version for this run.
006 – 006	Transaction Version Off	X(01)	AN	1	Y – Do not use transaction version for this run.
007 – 007	Multiple Envelope ID Off	X(01)	AN	1	Y – Do not use multiple envelope ID for this run.
008 – 008	Always Generate Group Envelope	X(01)	AN	1	Y – Always generate group envelope each time a transaction envelope is generated.

NCPDP Inbound Pre-Processing Program NCPDP51I

Purpose

The NCPDP Inbound Pre-Processing program reformats inbound NCPDP data into a fixed-format structure that can be processed by the Sterling Gentran:Structure Pre-Processor program (EBDI083). This program is the first step in the processing flow for NCPDP data.

For more information about processing NCPDP data through Sterling Gentran:Structure, see Appendix B of this guide.

Inbound Pre-Processing Program Flow

Figure 4.6 illustrates the Inbound Pre-Processing program process.

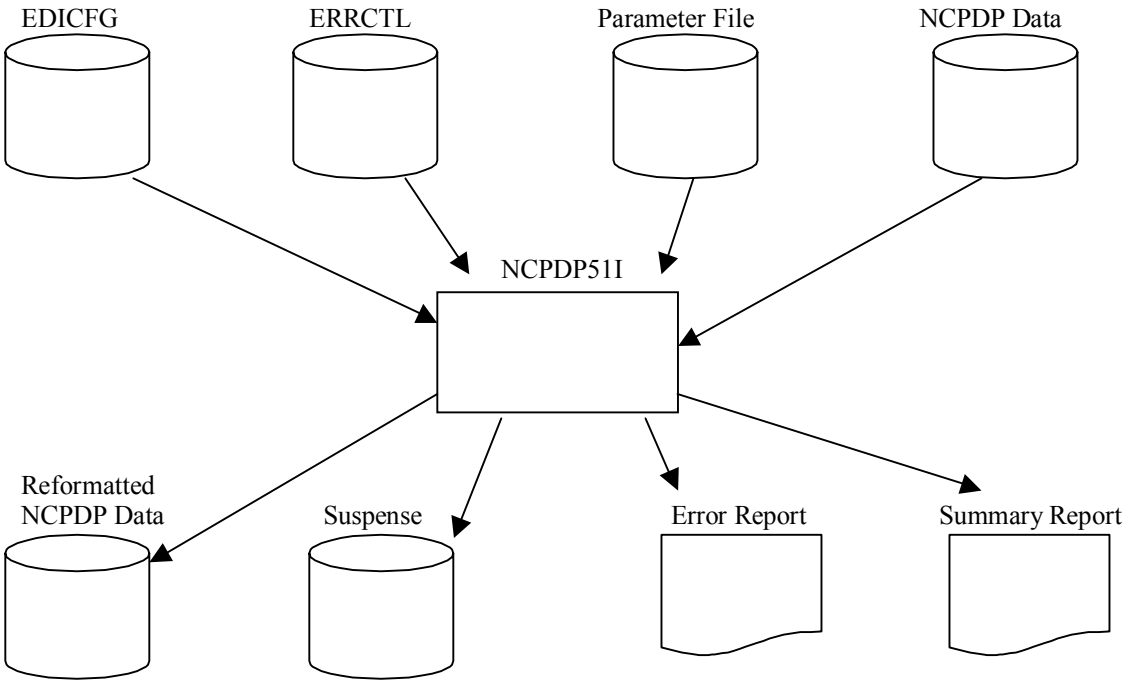


Figure 4.6 NCPDP51I Program Flow

Files Used

Input

The following files are input.

Filename	Description
EDICFG	System Configuration file
ERRCTL	Error Message and Control file Contains the message text for error report processing.
SYS003	Inbound NCPDP Data file This file contains the user's EDI data. It can be fixed-blocked or variable-blocked and can have a logical record length up to 32760 bytes.
SYS030	Parameters file This file contains the parameters that are used for processing the data through the program.

Output

The following files are output.

Filename	Description
SYS004	Reformatted NCPDP Data file
SYS005	Error report
SYS006	Summary report
SYS099	Suspense file This file contains data that could not be processed due to an invalid NCPDP Version/Release being found on the header record.

Parameter Layout

Record Format Parameter – Required

The following table describes the Record Format parameter layout.

Position	Field Content	COBOL Picture	Format	Length	Description
01 – 14	RECORD FORMAT	X(14)	AN	14	Input record format Valid value is: RECORD FORMAT
15 – 22	Record Format Value	X(08)	AN	08	Record format Valid values are: FIXED VARIABLE

Record Length Parameter – Required

The following table describes the Record Length parameter layout.

Position	Field Content	COBOL Picture	Format	Length	Description
01 – 14	RECORD LENGTH	X(14)	AN	14	Input record length Valid value is: RECORD LENGTH
15 – 19	Record Length Value	X(05)	AN	05	Record length value. Valid values are: 00001-32760.

NCPDP Outbound Post-Processing Program NCPDP51O

Purpose

The NCPDP Outbound Post-Processing program reformats and compresses outbound NCPDP data from the Sterling Gentran-specific format into true NCPDP format. This program is the last step in the outbound processing flow for NCPDP data.

For more information about processing NCPDP data through Sterling Gentran:Structure, see Appendix B in this guide.

NCPDP Outbound Post-Processing Program Flow

Figure 4.7 illustrates the Outbound Post-Processing program process.

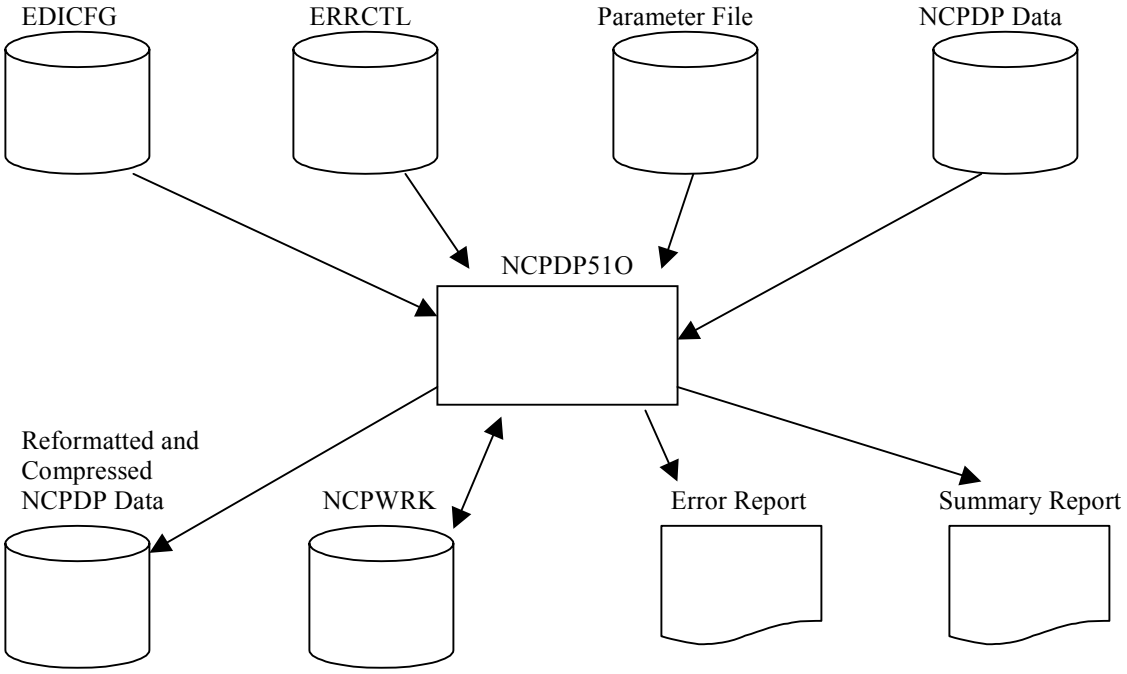


Figure 4.7 NCPDP51O Program Flow

Files Used

Input

The following files are input.

Filename	Description
EDICFG	System Configuration file
ERRCTL	Error Message and Control file Contains the message text for error report processing.
SYS003	Outbound NCPDP Data file This file contains the NCPDP data in the Sterling Gentran-specific NCPDP format as created by the Outbound Mapper (EBDI042).
SYS030	Parameters file This file contains the parameters that are used for processing the data through the program.

Output

The following files are output.

Filename	Description
SYS004	Compressed and Reformatted NCPDP data This file contains NCPDP data in true NCPDP format.
SYS005	Error report
SYS006	Summary report

Input/Output

The following files is used as input/output.

Filename	Description
NCPWRK	Work file Temporary work file used in processing.

Parameter Layout

Record Format Parameter – Required

The following table describes the Record Format parameter layout.

Position	Field Content	COBOL Picture	Format	Length	Description
01 – 14	RECORD FORMAT	X(14)	AN	14	Input record format Valid value is: RECORD FORMAT
15 – 22	Record Format Value	X(08)	AN	08	Record format Valid values are: FIXED VARIABLE

Record Length Parameter – Required

The following table describes the Record Length parameter layout.

Position	Field Content	COBOL Picture	Format	Length	Description
01 – 14	RECORD LENGTH	X(14)	AN	14	Input record length Valid value is: RECORD LENGTH
15 – 19	Record Length Value	X(05)	AN	05	Record length value. Valid values are: 00001-32760.

Compression Parameter – Required

The following table describes the Record Length parameter layout.

Position	Field Content	COBOL Picture	Format	Length	Description
01 – 09	COMPRESS	X(09)	AN	09	Output compression level. Valid value is: COMPRESS
10 – 22	Compression level value	X(12)	AN	12	Indicates level of compression for output file. Valid values are: FULL – compression includes batch envelopes TRANSMISSION – compression does not include batch envelopes.

Sterling Gentran:Structure Application Databank Inquiry Report Program EDID553

Purpose

The Sterling Gentran:Structure Application Databank Inquiry Report program is generated when the batch program EDID553 is executed. The report provides detailed information on Sterling Gentran:Structure data from the Inbound and Outbound Application databanks. The Sterling Gentran:Structure Application Databank Inquiry Report program runs as a batch job step.

The report contains a detail-level inquiry, summary-level inquiry, and processing log, based on the report-type control card value specified. The wide range of selection criteria provides you with flexible control to produce reports that meet your specific requirements.

The Sterling Gentran:Structure Application Databank Inquiry Report program also produces a Statistics file, if requested. The Statistics file is a data file containing statistical information on the inbound and outbound Sterling Gentran:Structure application data.

Files Used

Input

Input varies based on the databank control card criteria used. The following is a list of possible input files.

Filename	Description
EDIIAA	Inbound Application Databank Directory
EDIOAA	Outbound Application Databank Directory
EDICNTL	Control Card file
ERRCTL	Error Message and Control file
EDICFG	System Configuration file

Output

The following files may be updated when the reported control card selection criteria is used with a value of NO or All.

Filename	Description
EDIIAA	Inbound Application Databank Directory
EDIOAA	Outbound Application Databank Directory

Reports

Program EDID553 produces the following reports:

- EDIRPT – Sterling Gentran:Structure Application Databank Inquiry report
- EDILOG – Processing Log
- EDISUM – Processing Summary report
- EDISTX – Sterling Gentran:Structure Statistics file

Control Card Options

The following Databank Inquiry operations and selection criteria are specified by control cards:

Operations

SELECT	(Default Operation)

Selection criteria

Defaults

AGE-DAYS	ALL
AGE-HOURS	ALL
AGENCY	ALL
DATABANK	ALL
DATABANK-RUN-NUMBER	ALL
DIVISION	ALL
FROM-DATE	01/01/1900
FROM-TIME	00:00
MAP-VALIDATION-STATUS	ALL
NETWORK	ALL
PARTNER	ALL
PARTNER-QUALIFIER	ALL
PRE-PROCESSING-STATUS	ALL
REFERENCE-TAG	ALL
REPORTED	ALL
REPORT-TYPE	SUMMARY
STATISTICS-FILE	NO
STRUCTURE-VERSION-ID	ALL
TEST-PRODUCTION-STATUS	ALL
TO-DATE	12/31/2099
TO-TIME	23:59
TRADING-PROFILE-MODE	PARTNER-QUALIFIER
TRANSACTION-SET-ID	ALL
USER	ALL
USER-REFERENCE	ALL

Note: Date and time selection criteria are evaluated independently. Time-based selection criteria are used to limit the data selected using the specified time range for each day within the date range. For example, selecting data with time criteria of 9 a.m. to 5 p.m. equates to data processed between 9 and 5 on any day. Adding a date range further reduces the data selected to that which was processed between 9 and 5 on any day in the date range.

Valid Criteria Values

Age-Days

The age of the data in number of days. Enter a three-digit value to request documents that are the specified age or newer. Specify **000** to get only documents added on the current date. To request documents older than a specified age, enter a greater than sign and the age-days (for example, enter **>002** to select documents more than 2 days old). Valid values are:

ALL
nnn (where *nnn* is 000-999)
>nnn (where *nnn* is 000-999)

Age-Hours

The age of the data in hours. Enter a three-digit value to request documents that are a specified age or newer. To request documents older than the specified age, enter a greater than sign and the age-hours (for example, enter **>005** to select documents more than five hours old). Valid values are:

ALL
nnn (where *nnn* is 000-999)
>nnn (where *nnn* is 000-999)

Agency

The 2-character agency code associated with the Sterling Gentran:Structure version ID. You can specify either an agency code of **ALL** for all agency codes. Valid values are:

ALL
aaaaaaaaaaaa

Databank

Identifies which application databanks should be used for the inquiry. Valid values are:

ALL
INBOUND-APPLICATION
OUTBOUND-APPLICATION

Databank-Run-Number

An 8-digit number that identifies the run that last processed the document. Valid values are:

ALL
nnnnnnnn (must include leading zeros)

Division

Specifies the 3-character division code. You can specify either a division code or **ALL** for all division codes. Valid values are:

ALL
aaa (division code)

From-Date

For outbound Sterling Gentran:Structure data, this value specifies the last date the Outbound Mapper processed the data. For inbound Sterling Gentran:Structure data, this value specifies the date when the Sterling Gentran:Structure Pre-processor program processed the data. Valid format is **MM/DD/YYYY**.

From-Time

For outbound Sterling Gentran:Structure data, this value specifies the last time the Outbound Mapper processed the data. For inbound Sterling Gentran:Structure data, this value specifies the time when the Sterling Gentran:Structure Pre-processor program processed the data. Valid format is **HH:MM**.

Map-Validation-Status

Specifies the map validation status as assigned by the Outbound Mapper. Valid values are:

ALL
<08, **<12**, **00**, **04**, **08**, **12**, **>00**, **>04**, **>08** (Outbound Application only)

Network

Specifies the 15-character network ID. This selection criteria is valid for outbound application data only. Valid values are:

ALL
aaaaaaaaaaaaaaa (Outbound Application only)

Partner

Trading partner ID. Valid values are:

ALL
a 15- or 35- character partner ID

Note: The length of the field depends on the trading mode. For Relationship mode, the length is 15 characters. For Partner/Qualifier mode, the length is 35 characters.

Partner-Qualifier

The 4-character qualifier for the Partner ID. You can specify a partner qualifier or **ALL** for all partner qualifiers. This is valid only if the trading profile mode is Partner/Qualifier. Valid values are:

ALL
aaaa

Pre-Processing-Status

Specifies the pre-processing status as assigned by the Sterling Gentran:Structure Pre-processing program. Valid values are:

ALL
<08, **<12**, **00**, **04**, **08**, **12**, **>00**, **>04**, **>08** (Outbound Application only)

Reference-Tag

The 10-character Reference Tag assigned to the document by Sterling Gentran:Basic. Valid values are:

ALL	
aannnnnnnn	This is a reference tag where ***aa*** = **IS** or **OS**. Leading zeroes must be specified for the 8-digit number.

Reported

This selection criteria is used to limit selection based on what has been reported previously by an Inquiry report. Valid values are:

ALL	Select everything regardless of previous reports.
YES	Select only what has been reported previously.
NO	Select only what has not been reported previously.

Report-Type

Identifies the level at which the Inquiry should report. Valid values are:

FULL	Detailed information for each document that is reports
SUMMARY	Summary list of selected documents

Statistics-File

Specifies whether the Sterling Gentran:Structure Statistics file is to be created. Valid values are:

YES	Create the Statistics file in addition to the inquiry reports.
NO	Do not create the Statistics file.
ONLY	Create the Statistics file only, and do not print the inquiry reports.

Structure-Version-ID

Specifies the 1- to 12-character version ID. You can specify either a version ID or ALL for all version IDs. Valid values are:

ALL
aaaaaaaaaaaa

Test-Production-Status

Specifies the test/production status as assigned by Sterling Gentran:Basic that should be used for selecting documents. Valid values are:

ALL
PRODUCTION
TEST

To-Date

For outbound Sterling Gentran:Structure data, this value specifies the last date the Outbound Mapper processed the data. For inbound Sterling Gentran:Structure data, this value specifies the date when the Sterling Gentran:Structure Pre-processor program processed the data. This control card ends the date range and is used with From-Date. Valid format is ***MM/DD/YYYY***.

To-Time

For outbound Sterling Gentran:Structure data, this value specifies the last time the Outbound Mapper processed the data. For inbound Sterling Gentran:Structure data, this value specifies the time when the Sterling Gentran:Structure Pre-processor program processed the data. This control card ends the date range and is used with From-Date. Valid format is ***HH:MM***.

Transaction-Set-ID

Specifies the 1- to 6-character transaction set ID. You can specify either a transaction set ID or **ALL** for all transaction sets. This selection criteria is only used for Inbound Application search. Valid values are:

ALL
aaaaaa (Inbound Application only)

User

This selection criteria is only valid if the trading profile mode is Relationship. Specifies a 15-character User ID. Valid values are:

ALL
aaaaaaaaaaaaaaa

User-Reference

Specifies the 1- to 45-character user reference value. You can specify either a user reference or **ALL** for all user references. Valid values are:

ALL
45-character User Reference field

Sample Reports

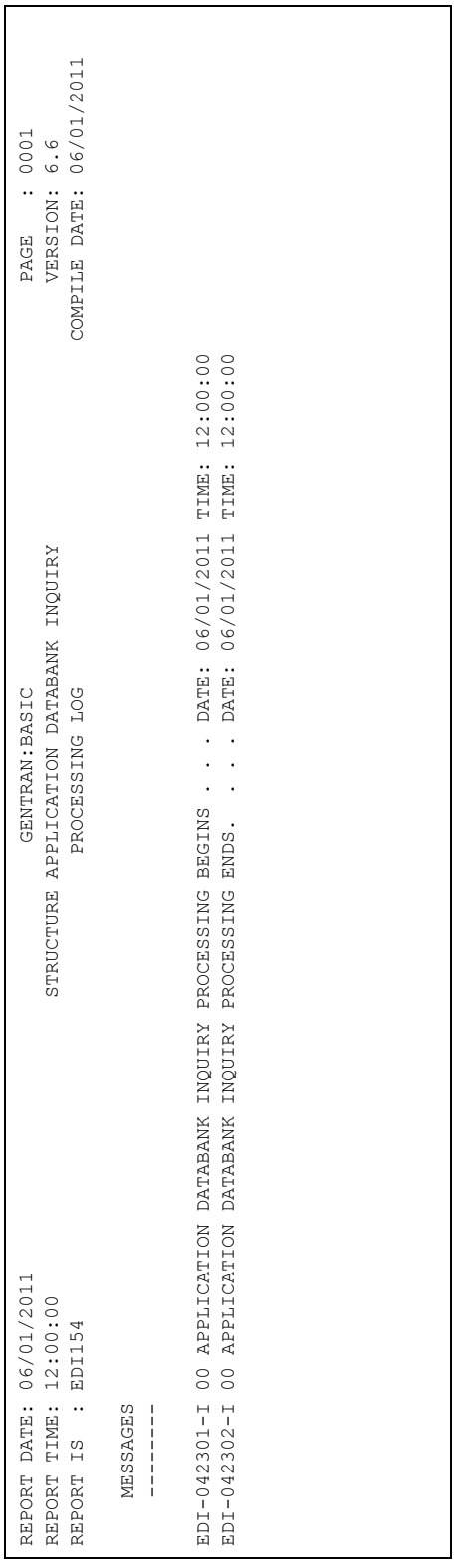
This section contains sample reports from the Sterling Gentran:Structure Application Databank Inquiry Report program.

Summary Report

```
REPORT DATE: 06/01/2011                                GENTRAN:BASIC                                    PAGE  : 00001
REPORT TIME: 12:00:00                        STRUCTURE APPLICATION DATABANK INQUIRY
REPORT ID  : EDI156                                    SUMMARY REPORT                                  VERSION: 6.6

    OPTIONS USED THIS RUN
    ---------------------

REQUESTED-OPERATION                = SELECT
AGE-DAYS                           = ALL
AGE-HOURS                          = ALL
AGENCY                             = ALL
DATABANK                           = ALL
DATABANK-RUN-NUMBER                = ALL
DIVISION                           = ALL
FROM-DATE                          = 01/01/1999
FROM-TIME                          = 00:00
MAP-VALIDATION-STATUS              = ALL
NETWORK                            = ALL
PARTNER                            = ALL
PARTNER-QUALIFIER                  = ALL
PRE-PROCESSING-STATUS              = ALL
REALTIME-DATABANKS                 = NO
REFERENCE-TAG                      = ALL
REPORTED                           = ALL
REPORT-TYPE                        = FULL
STATISTICS-FILE                    = YES
STRUCTURE-VERSION-ID               = ALL
TEST-PRODUCTION-STATUS             = ALL
TO-DATE                            = 12/31/2099
TO-TIME                            = 23:59
TRADING-PROFILE-MODE               = PARTNER-QUALIFIER
TRANSACTION-SET-ID                 = ALL
USER-REFERENCE                     = ALL
CONCURRENCY-ENABLED                = NO

    PROCESSING SUMMARY
    ------------------

INBOUND DOCUMENTS                  :        28
OUTBOUND DOCUMENTS                 :        48
INBOUND DOCUMENTS SELECTED         :        25
OUTBOUND DOCUMENTS SELECTED        :         0

STATISTICS FILE RECORDS WRITTEN    :        28

NUMBER OF ERRORS THIS RUN          :         0
HIGHEST RETURN CODE THIS RUN       :         0
```

Figure 4.8 EDID553 Summary Report

Processing Log



```
REPORT DATE: 06/01/2011                    GENTRAN:BASIC                    PAGE   : 0001
REPORT TIME: 12:00:00                STRUCTURE APPLICATION DATABANK INQUIRY   VERSION: 6.6
REPORT IS  : EDI154                        PROCESSING LOG                   COMPILE DATE: 06/01/2011

      MESSAGES
      --------

EDI-042301-I 00 APPLICATION DATABANK INQUIRY PROCESSING BEGINS . . . DATE: 06/01/2011 TIME: 12:00:00
EDI-042302-I 00 APPLICATION DATABANK INQUIRY PROCESSING ENDS.  . . . DATE: 06/01/2011 TIME: 12:00:00
```

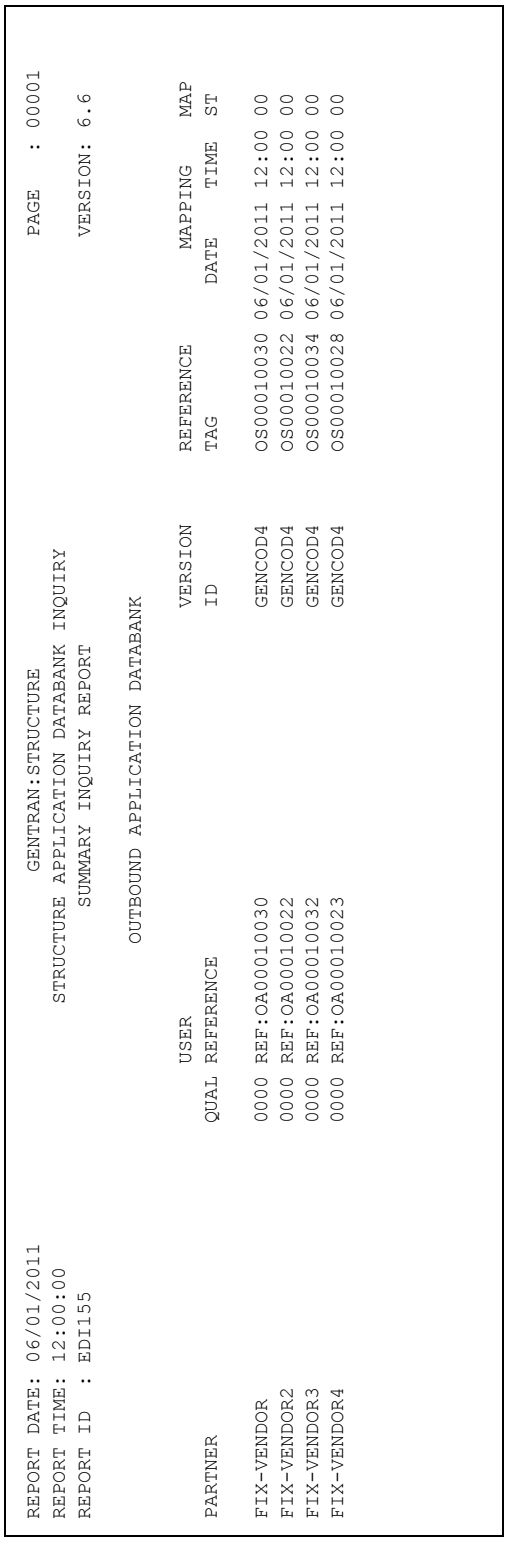
Figure 4.9 EDID553 Processing Log

Detail Inquiry Report

```
REPORT DATE: 06/01/2011                          GENTRAN:STRUCTURE                                  PAGE   : 00001
REPORT TIME: 12:00:00                   STRUCTURE APPLICATION DATABANK INQUIRY
REPORT ID  : EDI155                             DETAIL INQUIRY REPORT                               VERSION: 6.6

                                          INBOUND APPLICATION DATABANK

   PARTNER ID....: LAWNVEND                      QUAL...........:                 DIVISION...........: 001
   VERSION ID....: JASS                          AGENCY.........: SC              TRANSACTION SET....: 0926
   USER REFERENCE: LAWN CARE VENDOR INC.                                          PREVIOUSLY REPORTED: NO
   DATABANK RUN #: 00000901                      REFERENCE TAG..: IS00003032      DATABANK...........: GENTRAN
   PRE-PROCESS DT: 06/01/2011  12:00             PRE-PROC STATUS: 00              NETWORK............:
   INTER ENV ID..: PHD                                                            SEG ID LENGTH......: 03
   GROUP ENV ID..: GHD                                                            SEG ID START POS...: 00078
   TRANS ENV ID..: THD                                                            CHARACTER COUNT....: 000006117

   PARTNER ID....: LAWNVEND                      QUAL...........:                 DIVISION...........: 001
   VERSION ID....: JASS                          AGENCY.........: SC              TRANSACTION SET....: 0926
   USER REFERENCE: LAWN CARE VENDOR INC.                                          PREVIOUSLY REPORTED: NO
   DATABANK RUN #: 00000901                      REFERENCE TAG..: IS00003052      DATABANK...........: GENTRAN
   PRE-PROCESS DT: 06/01/2011  12:00             PRE-PROC STATUS: 00              NETWORK............:
   INTER ENV ID..: PHD                                                            SEG ID LENGTH......: 03
   GROUP ENV ID..: GHD                                                            SEG ID START POS...: 00078
   TRANS ENV ID..: THD                                                            CHARACTER COUNT....: 000005862
```

Figure 4.10 EDID553 Detail Inquiry Report

Summary Inquiry Report



```
REPORT DATE: 06/01/2011                    GENTRAN:STRUCTURE                                    PAGE   : 00001
REPORT TIME: 12:00:00                STRUCTURE APPLICATION DATABANK INQUIRY
REPORT ID  : EDI155                        SUMMARY INQUIRY REPORT                              VERSION: 6.6

                                     OUTBOUND APPLICATION DATABANK

                                 USER                        VERSION    REFERENCE        MAPPING    MAP
                                QUAL REFERENCE               ID         TAG           DATE    TIME  ST

                                 0000 REF:OA00010030         GENCOD4    OS00010030 06/01/2011 12:00 00
PARTNER                          0000 REF:OA00010022         GENCOD4    OS00010022 06/01/2011 12:00 00
FIX-VENDOR                       0000 REF:OA00010032         GENCOD4    OS00010034 06/01/2011 12:00 00
FIX-VENDOR2                      0000 REF:OA00010023         GENCOD4    OS00010028 06/01/2011 12:00 00
FIX-VENDOR3
FIX-VENDOR4
```

Figure 4.11 EDID553 Summary Inquiry Report

Chapter

5

Sterling Gentran:Realtime Program Descriptions

Overview

This chapter contains detailed descriptions of Sterling Gentran:Realtime files, processing, programs, and reports that are related to Sterling Gentran:Structure. Its purpose is to enable you to familiarize yourself with these programs and their functionality. This chapter contains the following topics:

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Inbound Flow

Introduction

This section illustrates and describes the inbound flow through Sterling Gentran:Structure for Sterling Gentran:Realtime, to provide context for the program descriptions that follow.

Illustration

Figure 5.1 illustrates the inbound flow through Sterling Gentran:Structure system components. It shows fixed-format, mixed-format and variable format EDI data. The numbers in the illustration correspond to the steps below the figure that describe the flow.

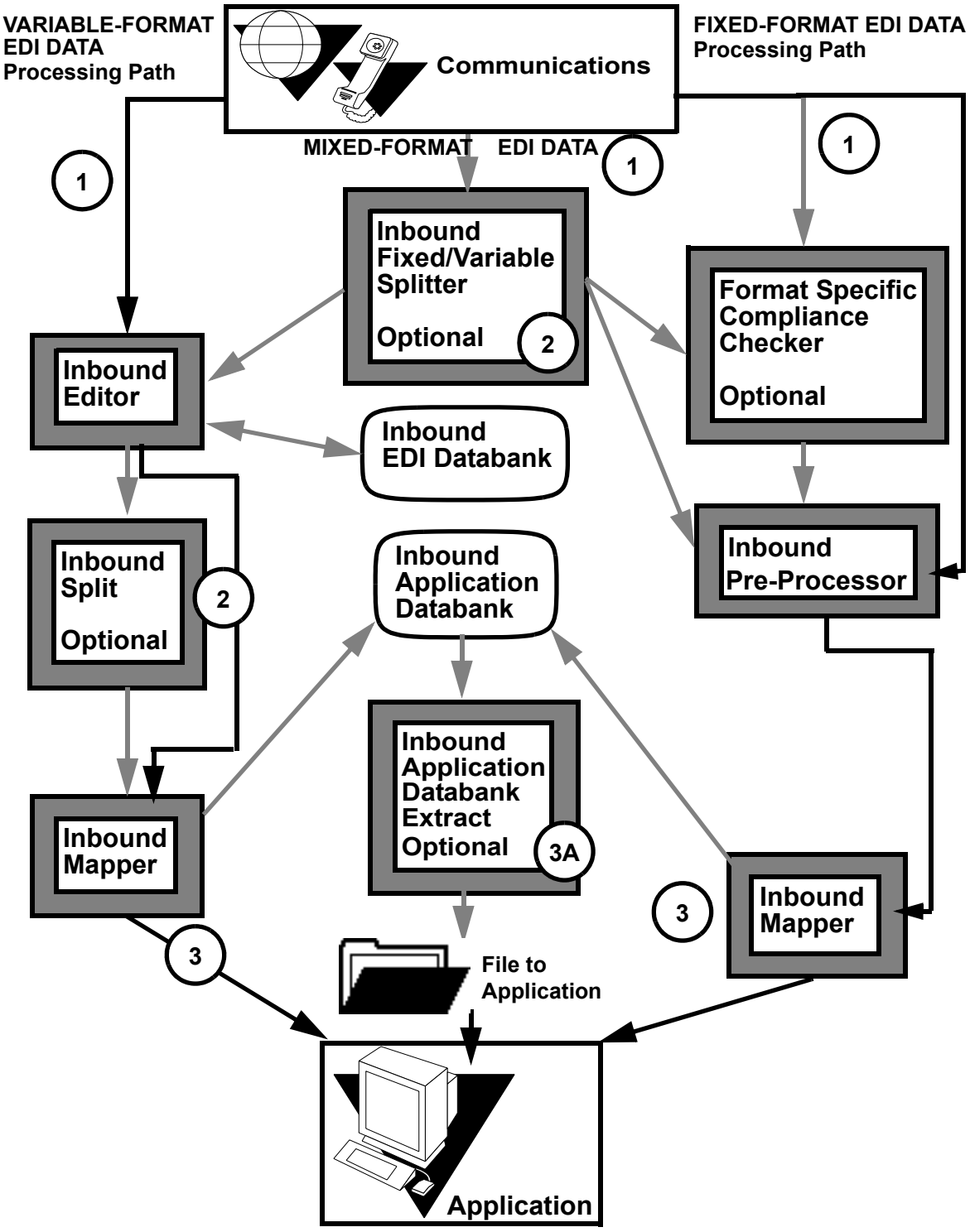


Figure 5.1 Inbound Flow Through Sterling Gentran:Structure System Components

The following table describes the inbound flow through Sterling Gentran:Realtime using Sterling Gentran:Structure.

Stage	Description		
	Variable Format Data	**Mixed-Format Data**	**Fixed-Format Data**
1	The system sends the data from Communications to the Inbound editor.	The system sends the data from Communications to the Inbound Fixed/Variable Split program to be separated by format type.	The system sends the data from Communications to the Format Specific Compliance Checker, if used, or directly to the Inbound Pre-Processor.
2	If the Inbound Splitter is used, the system passes the data to the Splitter, and then to the Inbound Mapper. If the Splitter is not used, the system passes the data directly to the Inbound Mapper.	The Inbound Fixed/Variable Splitter: • Sends the variable-format data to the Inbound editor. The data continues on the variable format data path. • Sends the fixed-format data to the Compliance Checker, if used, or directly to the Inbound Pre-processor. The data continues on the fixed-format path.	The system sends the data from the Pre-processor to the Inbound Mapper.
3	The Inbound Mapper sends the file to the Application or to the Inbound Application databank (if used; See step 3A).		The Inbound Mapper sends the file to the Application or to the Inbound Application databank (if used; see Stage 3A).
3A	(Optional) The Inbound Application Databank Extract program sends the data to the Application.		(Optional) The Inbound Application Databank Extract program sends the data to the Application.

Inbound Fixed/Variable Split Program EDIR094

Purpose

The Inbound Fixed/Variable Split program (EDIR094), or "Splitter," is optional. If the incoming EDI data file contains data for different fixed-format standards and/or is mixed with variable-format standards, then this program should be executed as the first step of the inbound process.

This program reads the EDI data file and splits it into the following categories:

- Fixed-format COMPORD data
- Fixed-format GM (CISCO) data
- Fixed-format GENCOD data
- Other fixed-format data
- Variable-format EDI data

Operation

The Splitter reads input data from a temporary storage queue (TSQ) identified by the user. The data is written to one of five output TSQs based on data type (e.g., COMPORD, GENCOD).

Once all input data is read, the program processes each of the five output TSQs. The destination parameters entered on the Fixed/Variable Splitter Path Maintenance screen (EDIM841) determine the processing performed for each TSQ.

When the destination is a queue file, the Splitter passes the TSQname to the Online Output Gateway (EDIEOOG) via a 'LINK'. The Output Gateway writes the TSQ data to the queue file specified by destination.

Note: The queue files and immediate options entered for Destination should be set up to run either the Inbound Editor (EDIR001) for variable-format data, or the Inbound Pre-Processor (EDIR083) for fixed-format data.

Inputs

The Splitter reads 80-byte records from an input TSQ. The input TSQ may be created in one of the following ways:

- By a CICS user program that passes the TSQname to the Splitter via the Inbound Communications Gateway (EDIR103).
- By a CICS user program that writes data to a queue file. The queue file trigger levels initiate execution of the Online Queue Read (EDIEOQR) program. The EDIEOQR program writes a TSQ and passes the TSQname to the Splitter via the Inbound Communications Gateway (EDIR103).

File Access

File Description	DDname	File Access
Sterling Gentran System Configuration file	EDICFG	Read
Sterling Gentran Error Message and Control file	ERRCTL	Read
Sterling Gentran:Realtime Online Control file	EDIOCF	Read
Sterling Gentran:Realtime Report Control file	EDIRRC	Write
Sterling Gentran:Realtime Report Detail file	EDIRRD	Write

Reports

The Inbound Fixed/Variable Split program produces a summary report and an error report. You can view these reports using the Sterling Gentran:Realtime Online Reporting function. The following diagrams illustrate the reports.

Note: The Process Name for this report is SPLITR.

Report Selection

```
Select Print Log Exception Activity
EDIM310 8.3_______          REPORT SELECTION                  XXX    06/01/2011
                                                                      12:00:00

     Path ID.......: ___          Process....: ______
     Line Incrmnt..: ____         Cond Code..: _ (Y)
     From Date.....: __________   To Date....: __________ (MM/DD/YYYY)
     From Time.....: ________     To Time....: ________   (HH:MM:SS)
     Task #........: _______      Max Srch...: 0450
     Print Job Name: ________
       Generation        Path  Process    Con  Task                    Control
 A    Date       Time     ID   Name    St Cd     #     Description      Address
 _  06/01/2011 12:00:00  000  OA-SUM     00   10330  OA DBK MAINT          361
 _  06/01/2011 12:00:00  000  OA-AUD     00   10330  OA DBK MAINT          362
 _  06/01/2011 12:00:00  000  AK-SUM     00   10339  EDID515-EDISUM        363
 _  06/01/2011 12:00:00  000  AK-REC     00   10339  EDID515-EDIRECN       364
 _  06/01/2011 12:00:00  000  AK-LOG     00   10339  EDID515-EDILOG        365
 _  06/01/2011 12:00:00  203  EDI01E   F 16   10595  ANSI I/B IVP          366
 _  06/01/2011 12:00:00  203  EDI01S   F 16   10595  ANSI I/B IVP          367
 _  06/01/2011 12:00:00  072  SPLITR     00   10616  FIX/VAR SPLIT         368
 _  06/01/2011 12:00:00  070  CMPORD   F 16   10617  COMPORD TEST          369

Enter PF1=Help            PF3=Exit               PF5=Action
      PF7=Bwd  PF8=Fwd
```

Inbound Fixed/Variable Splitter Report Display Screens

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY     XXX    06/01/2011
                                                                      12:00:00

Task ID: 0010616 Process Name: SPLITR
Search.: _____________________         Line Increment: ____ Job Name: ________

 EDIR094     RUN 06/01/2011      TIME 12:00      SUMMARY REPORT - FIXED/VARIA+
PROGRAM EDIR094  COMPILED ON 06/01/2011 AT 12.00.00   VERSION 6.6

 DATA FORMAT                              DESTINATION
 COMPORD FIXED FORMAT------------------- 370
 VARIABLE FORMAT EDI-------------------- 113
 GENCOD FIXED FORMAT-------------------- 114
 GM FIXED FORMAT------------------------ 115
 OTHER FIXED FORMAT--------------------- 116

 RTE PROCESSES STARTED
 COMPORD IMMEDIATE OPTION STARTED
 EDIDAT QUEUE FILE WRITTEN


Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
      PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY     XXX    06/01/2011
                                                                      12:00:00

Task ID: 0010616 Process Name: SPLITR
Search.: _____________________         Line Increment: ____ Job Name: ________
 EDIDAT QUEUE FILE WRITTEN
 GENCOD QUEUE FILE WRITTEN
 OTHFIX QUEUE FILE WRITTEN
 PROCESSING BEGAN ON                      06/01/2011 AT 12:00 AM.
 INPUT RECORDS READ---------------------                  223
 COMPORD RECORDS WRITTEN----------------                   46
 EDI VARIABLE RECORDS WRITTEN-----------                    4
 GENCOD RECORDS WRITTEN-----------------                  125
 GM DATA RECORDS WRITTEN----------------                    0
 OTHER FIXED DATA RECORDS WRITTEN-------                   48
 PROCESSING ENDED NORMALLY ON             06/01/2011 AT 12:00 AM.
 PROGRAM RETURN CODE--------------------                    0



END OF ONLINE REPORTS
Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
      PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Inbound Pre-processing Program EDIR083

Purpose

The Inbound Pre-Processing Program (EDIR083) supports mapping from fixed-format standards by duplicating some of the critical functionality that is present in the Inbound Editor program (EDIR001). This program replaces the Inbound Editor Program in the inbound processing flow for fixed-format standards.

The Inbound Pre-Processing program processes as input a fixed-format standard that the user has received from a trading partner or internal division. The user is responsible for determining that all data presented to this program is a fixed-format standard defined to the Sterling Gentran:Basic/Realtime online standards files. The Inbound Fixed/Variable Split program (EDIR094) can be used to segregate some types of this data.

The Pre-Processing program supports databanking of the fixed-format data. The system stores the records on the Inbound Application Databank. You can view them using screens accessible via the Databank menu.

Operation

The following table describes Inbound Pre-Processing program operation.

Stage	Description
1	The Inbound Pre-Processor initiates when a user selects the program as an option on the Additional Shell Steps Maintenance screen (EDIM84F) by typing a value of 1 in the Pre-processor field.
2	The Pre-Processor reads input data from a TSQ identified by the user and writes the data to an output TSQ.
3	The system passes the TSQname to the Inbound Mapping program (EDIR041).
4	As the input data is written to the output TSQ, the Pre-Processor adds ##MAP, ###MP2, ###MP3, ###MP4, ###MP5, and ###MP6 records. See the program description for program EBDI083 in Chapter 4, “Program Descriptions,” of this guide for an explanation of the format and placement of these special records.
5	The program processes according to the parameter values entered on the Fixed Format Pre-Processor Path Maintenance screen (EDIM840). See the program description for program EDIR840 in Chapter 3, “Screens,” of this guide for an explanation of the parameters.
6	If any input data cannot be processed, the program writes all input data to a Suspended Data TSQ and stores it on the Exception Handler subsystem for re-processing.

Inputs

The Pre-Processor reads records from an input TSQ. The input TSQ may be created in either of the following ways:

- By a CICS user program that passes the TSQname to the Pre-Processor by means of the Inbound Communications Gateway (EDIR103).
- By a CICS user program that writes data to a queue file. The queue file trigger levels initiate execution of the Online Queue Read (EDIEOQR or EDIROQR) program. The Online Queue Read writes a TSQ and passes the TSQname to the Pre-Processor by means of the Inbound Communications Gateway (EDIR103).

File Access

File Description	DDname	File Access
Sterling Gentran:Structure User Envelope Definition file	EDIUENV	Read
Sterling Gentran Partner File	EDIPART	Read
Sterling Gentran Partner Cross-Reference file	EDIPREF	Read
Sterling Gentran Partner Relationship file	EDIPREL	Read
Sterling Gentran System Configuration file	EDICFG	Read
Sterling Gentran Error Message and Control file	ERRCTL	Read
Sterling Gentran Standard Version file	EDISVER	Read
Sterling Gentran:Realtime Online Control file	EDIOCF	Read
Sterling Gentran:Realtime Report Control file	EDIRRC	Write
Sterling Gentran:Realtime Report Detail file	EDIRRD	Write

Reports

The Inbound Pre-Processor program produces a summary report and an error report. You can view these reports using the Sterling Gentran:Realtime Online Reporting function.

Note: The Process Name for this report is PREPRO

Report Selection

```
Select Print Log Exception Activity
EDIM310 8.3_______         REPORT SELECTION                XXX    06/01/2011
                                                                    12:00:00

     Path ID.......: ___          Process....: ______
     Line Incrmnt..: ____         Cond Code..: _ (Y)
     From Date.....: __________   To Date....: __________ (MM/DD/YYYY)
     From Time.....: ________     To Time....: ________   (HH:MM:SS)
     Task #........: _______      Max Srch...: 0450
     Print Job Name: ________
      Generation       Path  Process    Con  Task                    Control
 A    Date       Time    ID   Name    St Cd     #     Description      Address
 _  06/01/2011 12:00:00  000  AK-SUM     00   10339  EDID515-EDISUM       363
 _  06/01/2011 12:00:00  000  AK-REC     00   10339  EDID515-EDIRECN      364
 _  06/01/2011 12:00:00  000  AK-LOG     00   10339  EDID515-EDILOG       365
 _  06/01/2011 12:00:00  203  EDI01E   F 16   10595  ANSI I/B IVP         366
 _  06/01/2011 12:00:00  203  EDI01S   F 16   10595  ANSI I/B IVP         367
 _  06/01/2011 12:00:00  072  SPLITR     00   10616  FIX/VAR SPLIT        368
 _  06/01/2011 12:00:00  070  CMPORD   F 16   10617  COMPORD TEST         369
 _  06/01/2011 12:00:00  067  NCPDPI     00   10675  INBND NCPDP          370
 _  06/01/2011 12:00:00  067  PREPRO     00   10675  INBND NCPDP          371

Enter PF1=Help            PF3=Exit               PF5=Action
      PF7=Bwd  PF8=Fwd
```

Inbound Pre-Processor Report Display Screens

Part 1

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

Task ID: 0010675 Process Name: PREPRO
Search.: ____________________        Line Increment: ____ Job Name: ________

 EDIR083    RUN  06/01/2011     TIME 12:00    GENTRAN:STRUCTURE DATA PRE-PRO+
PROGRAM EDIR083  COMPILED ON 06/01/11 AT 12.00.00   VERSION 6.6
 ERROR  **RECORD**
 NUMBR    NBR ID               INFORMATION               ERROR MESSAGE
 NO ERRORS OCCURRED DURING PROCESSING
PROCESSING ENDED NORMALLY - PROCESSING COUNTS BELOW
                             INPUT RECORDS READ--------------      64
                             INPUT RECORDS SUSPENDED---------       0
                             OUTPUT RECORDS WRITTEN----------     109
                             PROGRAM RETURN CODE-------------       0
 EDIR083    RUN  06/01/2011     TIME 12:00    PROCESSING OPTIONS - GENTRAN:S+
 INPUT FILE ORGANIZATION IS--------------VARIABLE
 INPUT FILE RECORD LENGTH IS-------------05100


Enter PF1=Help PF2=Sum    PF3=Exit               PF5=Print      PF6=NxtEr
      PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Part 2

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

 Task ID: 0010675 Process Name: PREPRO
 Search.: _____________________        Line Increment: ____ Job Name: ________
  INPUT FILE RECORD LENGTH IS-------------05100
  TRADING PROFILE MODE IS-----------------PARTNER QUALIFIER
  DATABANKING LEVEL IS--------------------DATABANK NO
  DATA ENVELOPE SWITCH--------------------ON
  ENVELOPE LEVEL IS-----------------------INTERCHANGE
  DATA SEPARATION IS----------------------NOT DEFINED
 EDIR083    RUN  06/01/2011     TIME 12:00    SUMMARY REPORT - GENTRAN:STRUC+
  PROCESSING BEGAN ON  06/01/2011 AT 12:00 AM.
  INPUT RECORDS READ----------------------                   64
  INTERCHANGE ENVELOPES READ--------------                    4
  GROUP ENVELOPES READ--------------------                    8
  TRANSACTION ENVELOPES READ--------------                    8
  MAP RECORDS WRITTEN---------------------                   24
  OUTPUT RECORDS WRITTEN------------------                  109


 Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
       PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Part 3

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

 Task ID: 0010675 Process Name: PREPRO
 Search.: _____________________        Line Increment: ____ Job Name: ________
  OUTPUT RECORDS WRITTEN------------------                  109
  DATABANK RUN NUMBER---------------------            000000000
  DIRECTORY RECORDS WRITTEN---------------                    0
  MESSAGE STORE RECORDS WRITTEN-----------                    0
  RECORDS SUSPENDED-----------------------                    0
  PROCESSING ENDED ON 06/01/2011 AT 12:00 AM.









 END OF ONLINE REPORTS
 Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
       PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Inbound Mapping Program EDIR041

Purpose

The Inbound Mapping program (EDIR041), or "Mapper," optionally processes fixed-format standard input in addition to variable-format standard input. A single execution of the Mapper processes either fixed-format input that was generated by the Inbound Pre-Processing program (EDIR083) or variable-format data that was generated by the Inbound Editor program (EDIR001). A parameter instructs the Mapper as to the format of the data.

Data can be directed to the Application Data File and/or the Inbound Application databank regardless of input format.

Note: This section contains only information pertaining to the use of this program for Sterling Gentran:Structure for Sterling Gentran:Realtime. For complete information about this program see the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 Technical Reference Guide* and the *IBM® Sterling Gentran:Realtime® for z/OS® Technical Reference Guide*.

Operation

The Inbound Pre-Processor program reads input data from a TSQ identified by the user. The program writes data to an output TSQ. The system passes the TSQname to the Inbound Mapping program (EDIR041).

The Sterling Gentran:Realtime Shell program initiates the Mapper after the Inbound Pre-Processor program has successfully completed. When finished, this program builds a TSQ that contains the application data.

Inputs

The Inbound Mapper reads EDI data from a TSQ.

Sterling Gentran:Structure Subprograms Called

EDID652	Inbound Application Databank Interface subroutine

File Access

No special file accesses for Sterling Gentran:Structure for Sterling Gentran:Realtime.

Parameter Descriptions

Two parameters for the Inbound Mapper, Standard Type and DBK level, are specific to Sterling Gentran:Structure for Sterling Gentran:Realtime. The Inbound Mapper-3 Path Maintenance screen (EDIM837) enables you to enter values for these parameters.

Field Descriptions

Standard Type

The Standard Type parameter indicates whether the Inbound Mapper will process fixed-format or variable-format input data. A value of F indicates to the Inbound Mapper that the input data is fixed-format.

DBK Level

The DBK level parameter indicates whether the Inbound Mapper will use Databanking for the fixed-format input data. Due to the structure of the fixed-format data, the Inbound Application databank stores the inbound fixed-format EDI data. Valid values are:

0	=	No databanking is requested.
1	=	Use full databanking (both directory and message store levels).
2	=	Use directory-level databanking.

Screen Example

The following diagram illustrates the Inbound Mapper-3 Path Maintenance screen with the Standard Type and DBK Level fields highlighted.

```
EDIM837 __________     INBOUND MAPPER-3 PATH MAINTENANCE      XXX  06/01/2011
                                                                    12:00:00

Path ID.............: 302M  STRUCTURE INBOUND TEST

Structure:
     Standard Type......: F   (F=Fixed/V=Variable)
     DBK Level..........: 1   (0=No/1=Full/2=Dir)

Viewpoint:
      User Tracking......: N   (Y/N)
      Exception Tracking.: N   (Y/N)
      Tracking Management: N   (Y/N)




                                                 Last Update Date: 06/01/11
                                                             Time: 12:00:00
                                                                User: XXX

Enter PF1=Help            PF3=Exit PF4=Dir                      PF6=Shell
      PF7=Map2 PF8=Map1         PF10=Updt
```

Reports

Standard Mapper reports are generated during fixed-format processing.

See the *IBM® Sterling Gentran:Realtime® for z/OS® Technical Reference Guide* for more information.

Inbound NCPDP Pre-processing Program

Purpose

The NCPDP Inbound Pre-Processing program (EDIRNCPI) reformats inbound NCPDP data into a fixed format structure that the Sterling Gentran:Structure Pre-Processor program (EDIR083) can process. This program is the first step in the processing flow for NCPDP data.

See Appendix B, "Processing NCPDP Data," for more information about processing NCPDP data through Sterling Gentran:Structure.

Operation

The Inbound NCPDP Pre-Processor reads data from a TSQ identified by the user. The program writes output to a TSQ that is passed to the Pre-Processor program (EDIR083).

The system writes unrecognized data to a suspended TSQ and stores it on the Exception Handler subsystem for re-processing.

The Inbound NCPDP Pre-Processor reformats the inbound NCPDP transactions into a format that can be processed by the Inbound Mapper program.

Note: This program is based on the NCPDP Telecommunications Standard Version 5 Release 1.

Inputs

The NCPDP Pre-Processor reads records from an input TSQ. The input TSQ can be created in the following ways:

- By a CICS user program that passes the TSQname to the NCPDP Pre-Processor via the Inbound Communications Gateway (EDIR103).
- By a CICS user program that writes data to a queue file. The queue file trigger levels initiate execution of the Online Queue Read (EDIEOQR) program. The EDIEOQR program writes a TSQ and passes the TSQname to the NCPDP Pre-Processor via the Inbound Communications Gateway (EDIR103).

File Access

File Description	DDname	File Access
Sterling Gentran System Configuration file	EDICFG	Read
Sterling Gentran Error Message and Control file	ERRCTL	Read
Sterling Gentran:Realtime Report Control file	EDIRRC	Write
Sterling Gentran:Realtime Report Detail file	EDIRRD	Write

Reports

The Inbound NCPDP Pre-Processor program produces a summary report and an error report. You can view these reports using the Sterling Gentran:Realtime Online Reporting function.

Note: The Process Name for this report is NCPDPI.

Report Selection Screen

```
Select Print Log Exception Activity
EDIM310 8.3_______         REPORT SELECTION                 XXX    06/01/2011
                                                                     12:00:00

     Path ID.......: ___          Process....: ______
     Line Incrmnt..: ____         Cond Code..: _ (Y)
     From Date.....: __________   To Date....: __________ (MM/DD/YYYY)
     From Time.....: ________     To Time....: ________   (HH:MM:SS)
     Task #........: _______      Max Srch...: 0450
     Print Job Name: ________
      Generation       Path  Process    Con  Task                    Control
 A    Date       Time    ID   Name    St Cd     #     Description     Address
 _  06/01/2011 12:00:00  000  AK-SUM     00   10339  EDID515-EDISUM       363
 _  06/01/2011 12:00:00  000  AK-REC     00   10339  EDID515-EDIRECN      364
 _  06/01/2011 12:00:00  000  AK-LOG     00   10339  EDID515-EDILOG       365
 _  06/01/2011 12:00:00  203  EDI01E   F 16   10595  ANSI I/B IVP         366
 _  06/01/2011 12:00:00  203  EDI01S   F 16   10595  ANSI I/B IVP         367
 _  06/01/2011 12:00:00  072  SPLITR     00   10616  FIX/VAR SPLIT        368
 _  06/01/2011 12:00:00  070  CMPORD   F 16   10617  COMPORD TEST         369
 _  06/01/2011 12:00:00  067  NCPDPI     00   10675  INBND NCPDP          370
 _  06/01/2011 12:00:00  067  PREPRO     00   10675  INBND NCPDP          371

Enter PF1=Help            PF3=Exit               PF5=Action
      PF7=Bwd  PF8=Fwd
```

Sterling Gentran:Realtime *NCPDP Pre-Processor Report Display*

Part 1

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

 Task ID: 0010675 Process Name: NCPDPI
 Search.: _____________________        Line Increment: ____ Job Name: ________

  EDIRNCPI    RUN  06/01/2011     TIME 12:00     PROCESSING OPTIONS - GENTRAN+
 PROGRAM EDIRNCPI COMPILED ON 06/01/2011 AT 12.00.00   VERSION 6.6

  EDIRNCPI    RUN  06/01/2011     TIME 12:00     GENTRAN:STRUCTURE DATA PRE-P+
   ERROR  **RECORD**
   NUMBR    NBR ID               INFORMATION               ERROR MESSAGE
   NO ERRORS OCCURRED DURING PROCESSING
 PROCESSING ENDED NORMALLY - PROCESSING COUNTS BELOW
                               INPUT RECORDS READ--------------      46
                               INPUT RECORDS SUSPENDED---------       0
                               OUTPUT RECORDS WRITTEN----------      64
                               PROGRAM RETURN CODE-------------       0
  EDIRNCPI    RUN  06/01/2011     TIME 12:00     SUMMARY REPORT - GENTRAN:STR+


 Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
       PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Part 2

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

 Task ID: 0010675 Process Name: NCPDPI
 Search.: _____________________        Line Increment: ____ Job Name: ________
  EDIRNCPI    RUN  06/01/2011     TIME 12:00     SUMMARY REPORT - GENTRAN:STR+
   PROCESSING BEGAN ON  06/01/11 AT 12:00 AM.
   INPUT RECORDS READ---------------------                  46
   OUTPUT RECORDS WRITTEN-----------------                  64
   RECORDS SUSPENDED----------------------                   0
   00 SEGMENTS WRITTEN --------------------                  4
   G1 SEGMENTS WRITTEN --------------------                  8
   TH SEGMENTS WRITTEN --------------------                  0
   RH SEGMENTS WRITTEN --------------------                  8
   01 SEGMENTS WRITTEN --------------------                  0
   02 SEGMENTS WRITTEN --------------------                  0
   03 SEGMENTS WRITTEN --------------------                  0
   04 SEGMENTS WRITTEN --------------------                  0
   05 SEGMENTS WRITTEN --------------------                  0


 Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
       PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Part 3

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

 Task ID: 0010675 Process Name: NCPDPI
 Search.: _____________________        Line Increment: ____ Job Name: ________
  05 SEGMENTS WRITTEN --------------------                    0
  06 SEGMENTS WRITTEN --------------------                    0
  07 SEGMENTS WRITTEN --------------------                    0
  08 SEGMENTS WRITTEN --------------------                    0
  09 SEGMENTS WRITTEN --------------------                    0
  10 SEGMENTS WRITTEN --------------------                    0
  11 SEGMENTS WRITTEN --------------------                    0
  12 SEGMENTS WRITTEN --------------------                    0
  13 SEGMENTS WRITTEN --------------------                    0
  20 SEGMENTS WRITTEN --------------------                    8
  21 SEGMENTS WRITTEN --------------------                    8
  22 SEGMENTS WRITTEN --------------------                    8
  23 SEGMENTS WRITTEN --------------------                    8
  24 SEGMENTS WRITTEN --------------------                    0


 Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
       PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Part 4

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

 Task ID: 0010675 Process Name: NCPDPI
 Search.: _____________________        Line Increment: ____ Job Name: ________
  24 SEGMENTS WRITTEN --------------------                    0
  25 SEGMENTS WRITTEN --------------------                    8
  26 SEGMENTS WRITTEN --------------------                    0
  PROCESSING ENDED ON  06/01/11 AT 12:00 AM.









 END OF ONLINE REPORTS
 Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
       PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Outbound Flow

Overview

The programs described in the following sections allow the system to process fixed-format standards. The following flow charts describe the outbound flow with fixed-format standards and the Outbound Mapping program.

Outbound Flow with Fixed-Format Standards

Figure 5.2 illustrates the outbound process.

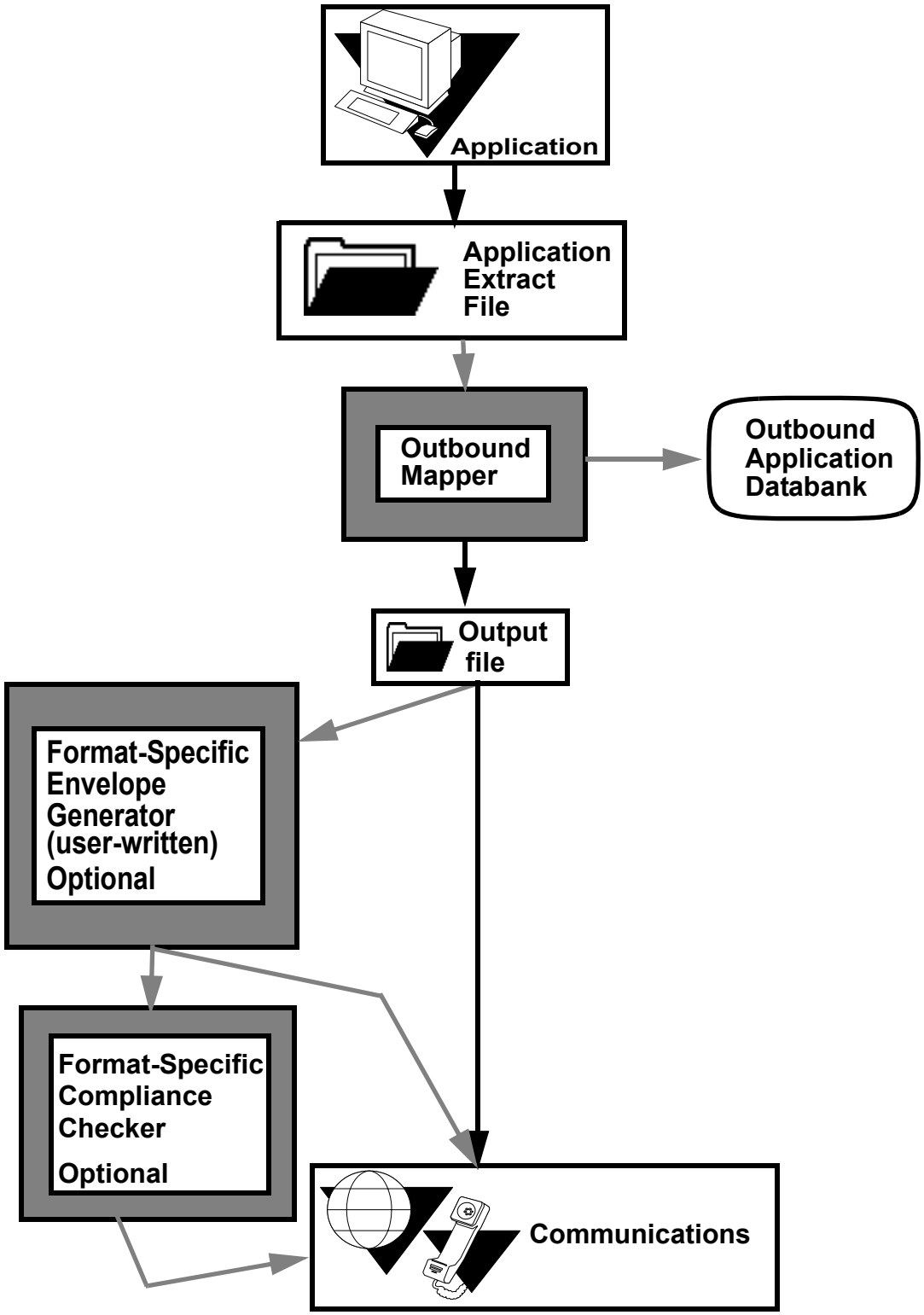


Figure 5.2 Outbound Flow with Fixed-Format Standards

Outbound Mapping Program EDIR042

Purpose

The Outbound Mapping program (EDIR042), or "Mapper," optionally generates fixed-format standard output in addition to variable-format standard output. Both fixed-format data and variable-format data can be generated from a single application depending upon the receiver of the data.

Fixed-format data can be sent directly to communications for transmission to the trading partner, or it can be processed by optional envelope generation or compliance checking programs. We do not supply these optional programs with Sterling Gentran:Structure. If you need them for processing, you must develop them for the specific standard.

Note: This section contains only information pertaining to the use of this program for Sterling Gentran:Structure for Sterling Gentran:Realtime. For complete information about this program, see the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 Technical Reference Guide* and the *IBM® Sterling Gentran:Realtime® for z/OS® Technical Reference Guide*.

Operation

The Sterling Gentran:Realtime Shell program initiates the Outbound Mapping program routine after the Outbound Application Gateway has been invoked. When finished, this program builds a TSQ that contains the EDI data.

Inputs

The Outbound Mapper reads application data from a TSQ created by the user application or the Queue File Read process. The system passes the TSQname through the Sterling Gentran:Realtime Gateway.

Sterling Gentran:Structure Subprograms Called

- EDID562 Outbound Application Databank Interface subroutine
- EDIR056B subroutine Outbound Sterling Gentran:Structure Envelope Generation

File Access

File Description	DDname	File Access
Sterling Gentran:Structure User Envelope Definition file	EDIUENV	Read

Parameter Descriptions

The following parameters for the Outbound Mapper are specific for Sterling Gentran:Structure for Sterling Gentran:Realtime:

- Standard Type
- Maximum Len
- Initialize Numerics
- DBK Level
- Always Generate New Group per Tran

The Outbound Mapper-4 Path Maintenance screen (EDIM84J) enables you to enter values for these parameters.

Field Descriptions

Standard Type

The Standard Type parameter indicates to the Outbound Mapper whether fixed-format or variable-format output data is to be generated. A value of F indicates that the output data is fixed-format

Maximum Len

The Maximum Len parameter describes the maximum length of a segment in the defined standard. Valid values are:

00010 – 32760 for fixed-length segments

00010 – 32752 for variable-length segments

Initialize Numerics

The Initialize Numerics indicates to the Outbound Mapper whether to initialize non-packed dates and numeric data to zero. A value of Y tells the Mapper to set to zero any non-packed dates and numeric data with types N0 – N9 and S0 – S9 if no valid value is mapped to the element.

DBK Level

Indicates whether the Outbound Mapper should use Databanking for the fixed-format input data. Due to the structure of the fixed-format data, the Outbound Application databank is used to store the outbound fixed-format EDI data. Valid values are:

0 = No databanking.

1 = Use full databanking (both directory and message store levels).

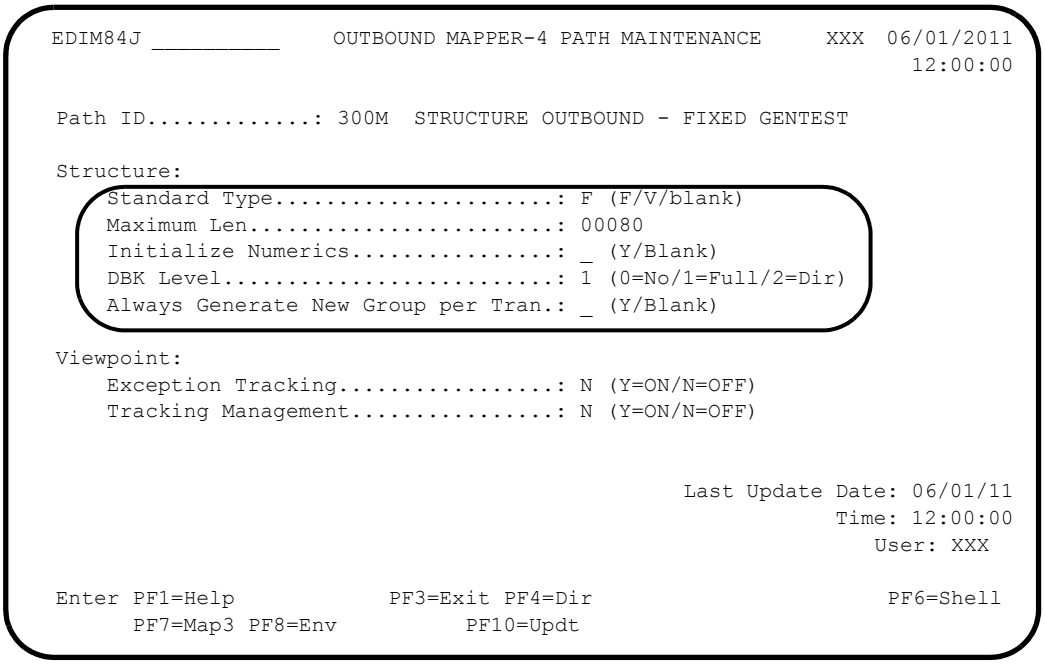
2 = Use directory-level databanking.

Always Generate New Group per Tran

For NCPDP processing, this indicates to the Outbound Mapper to always generate a group envelope when the system generates a transaction envelope. A value of Y directs the Mapper to generate a group envelope for each transaction.

Screen Example

The following diagram illustrates the Outbound Mapper-4 Path Maintenance screen with the parameters fields highlighted.



Reports

The system generates Standard Mapper reports during fixed-format processing.

See the *IBM® Sterling Gentran:Realtime® for z/OS® Release 6.6 Technical Reference Guide* for more information.

Outbound NCPDP Post-Processing Program

Purpose

The Outbound NCPDP Post-Processing program (EDIRNCPO) reformats and compresses outbound NCPDP data from Sterling Gentran-specific format into true NCPDP format. This program is the last step in the outbound processing flow for NCPDP data.

See Appendix B, “Processing NCPDP Data,” for more information about processing NCPDP data through Sterling Gentran:Structure.

Operation

The NCPDP Post-Processor reads data from a TSQ created by the Outbound Mapper program (EDIR042). When finished, this program builds a TSQ that contains the EDI data.

Note: This program is based on the NCPDP Telecommunications Standard Version 5 Release 1.

Inputs

The NCPDP Post-Processor reads records from an input TSQ. The input TSQ is created by the Outbound Mapper program (EDIR042).

File Access

File Description	DDname	File Access
Sterling Gentran System Configuration file	EDICFG	Read
Sterling Gentran Error Message and Control file	ERRCTL	Read
Sterling Gentran:Realtime Report Control file	EDIRRC	Write
Sterling Gentran:Realtime Report Detail file	EDIRRD	Write

Parameter Descriptions

Two parameters, Record Format and Compress, are specific to the NCPDP Post-Processor. The NCPDP Outbound Parms Maintenance screen (EDIM84G) enables you to enter values for these parameters.

Field Descriptions

Record Length

The Record Length parameter indicates the maximum record length the Outbound NCPDP Post-Processor will use when compressing and wrapping the outgoing NCPDP EDI data. Valid values are **00001 – 32760**.

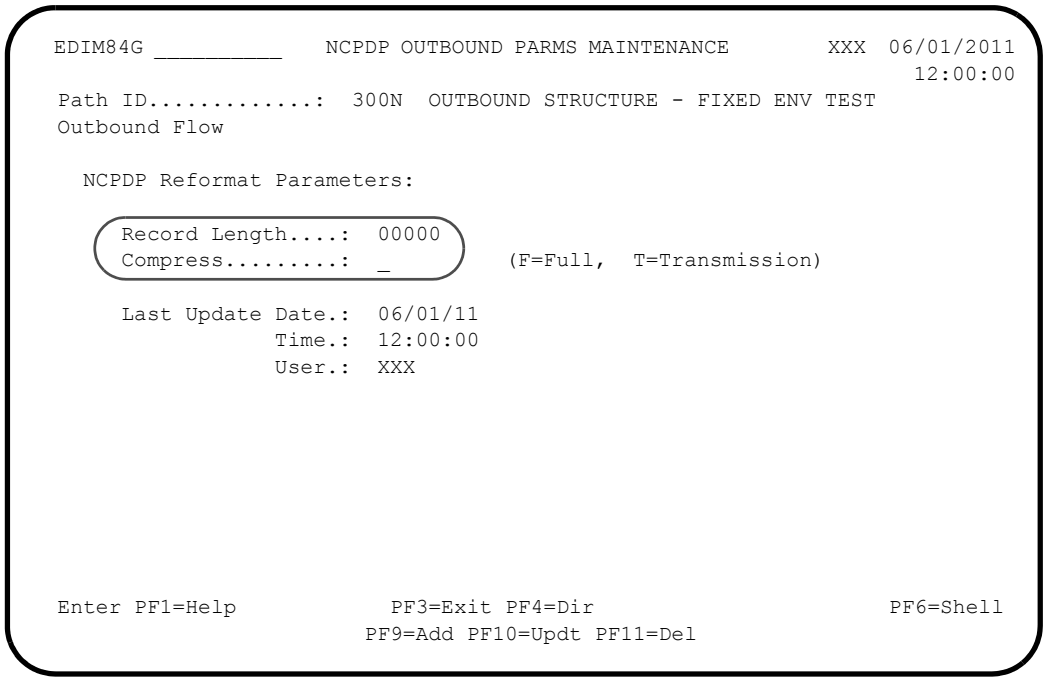
Compress

The Compress parameter indicates the level of compression and wrapping the Outbound NCPDP Post-Processor will use for the outgoing NCPDP EDI data. Valid values are:

F	=	Include the batch envelopes when compressing and wrapping the NCPDP EDI data.
T	=	The transaction envelope should start a new record. The batch envelopes are not compressed and wrapped.

Screen Example

The following diagram illustrates the NCPDP Outbound Parms Maintenance screen with the Record Length and Compress fields highlighted.

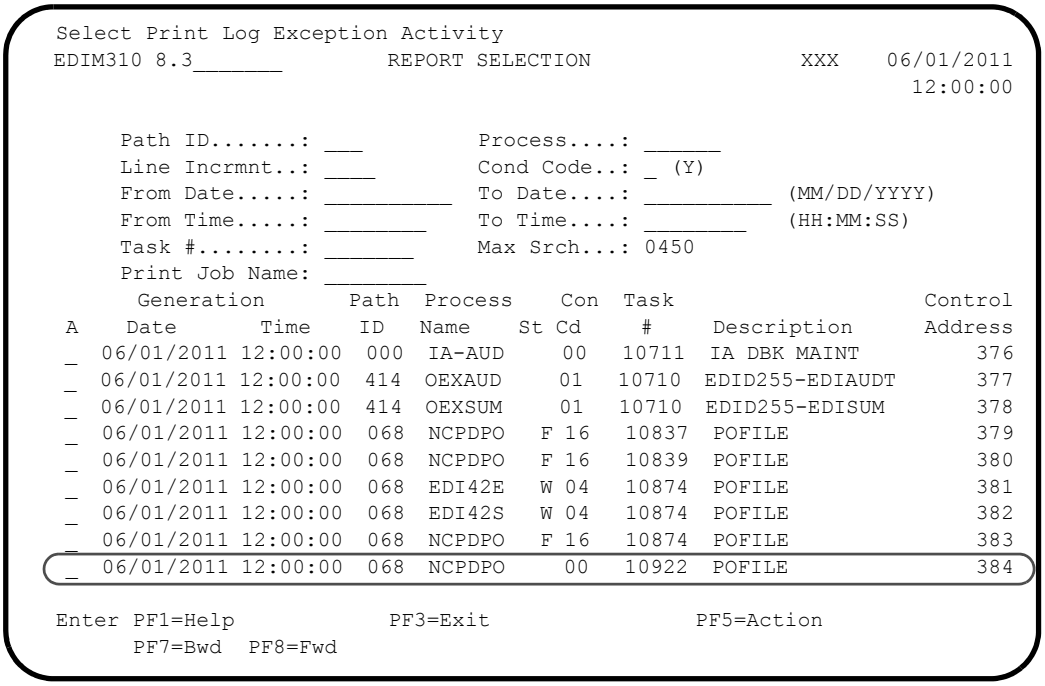


Reports

The Outbound NCPDP Post-Processor program produces a summary report and an error report. You can view these reports using the Sterling Gentran:Realtime Online Reporting function.

Note: The Process Name for this report is NCPDPO.

Report Selection



```
Select Print Log Exception Activity
EDIM310 8.3_______          REPORT SELECTION                 XXX    06/01/2011
                                                                      12:00:00

     Path ID.......: ___          Process....: ______
     Line Incrmnt..: ____         Cond Code..: _ (Y)
     From Date.....: __________   To Date....: __________ (MM/DD/YYYY)
     From Time.....: ________     To Time....: ________   (HH:MM:SS)
     Task #........: _______      Max Srch...: 0450
     Print Job Name: ________
      Generation       Path  Process    Con  Task                    Control
 A    Date       Time    ID   Name    St Cd     #     Description      Address
 _  06/01/2011 12:00:00  000  IA-AUD     00   10711  IA DBK MAINT         376
 _  06/01/2011 12:00:00  414  OEXAUD     01   10710  EDID255-EDIAUDT      377
 _  06/01/2011 12:00:00  414  OEXSUM     01   10710  EDID255-EDISUM       378
 _  06/01/2011 12:00:00  068  NCPDPO   F 16   10837  POFILE               379
 _  06/01/2011 12:00:00  068  NCPDPO   F 16   10839  POFILE               380
 _  06/01/2011 12:00:00  068  EDI42E   W 04   10874  POFILE               381
 _  06/01/2011 12:00:00  068  EDI42S   W 04   10874  POFILE               382
 _  06/01/2011 12:00:00  068  NCPDPO   F 16   10874  POFILE               383
 _  06/01/2011 12:00:00  068  NCPDPO     00   10922  POFILE               384

Enter PF1=Help           PF3=Exit              PF5=Action
      PF7=Bwd  PF8=Fwd
```

Outbound NCPDP Post-Processor Report Display Screens

Part 1

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

Task ID: 0010922 Process Name: NCPDPO
Search.: _____________________        Line Increment: ____ Job Name: ________

 EDIRNCPO    RUN  06/01/2011     TIME 12:00     GENTRAN:STRUCTURE DATA POST-+
  ERROR  **RECORD**
  NUMBR    NBR ID               INFORMATION               ERROR MESSAGE
****************************************
  NO ERRORS OCCURRED DURING PROCESSING
PROCESSING ENDED NORMALLY - PROCESSING COUNTS BELOW
                              INPUT RECORDS READ--------------      52
                              OUTPUT RECORDS WRITTEN----------      32
                              PROGRAM RETURN CODE-------------       0
 EDIRNCPO    RUN  06/01/2011     TIME 12:00     PROCESSING OPTIONS - GENTRAN+
  OUTPUT RECORD FORMAT IS ----------------VARIABLE
  OUTPUT RECORD LENGTH IS ----------------00100
  OUTPUT FILE COMPRESSION IS -------------TRANSACTION


Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
      PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Part 2

```
EDIM311 __________   GENTRAN:Realtime EDI REPORT DISPLAY    XXX    06/01/2011
                                                                    12:00:00

Task ID: 0010922 Process Name: NCPDPO
Search.: _____________________        Line Increment: ____ Job Name: ________
  OUTPUT FILE COMPRESSION IS -------------TRANSACTION
 EDIRNCPO    RUN  06/01/2011     TIME 12:00     SUMMARY REPORT - GENTRAN:STR+
  PROCESSING BEGAN ON  06/01/2011 AT 12:00 AM.
  INPUT RECORDS READ---------------------                  52
  OUTPUT RECORDS WRITTEN-----------------                  32
  PROCESSING ENDED ON  06/01/2011 AT 12:00 AM.









END OF ONLINE REPORTS
Enter PF1=Help PF2=Sum    PF3=Exit                PF5=Print      PF6=NxtEr
      PF7=Bwd  PF8=Fwd          PF10=Left PF11=Rgt PF12=Top   PF13=Bot
```

Appendix A Jump Codes

Jump Codes by Screen Title

The following tables list the jump codes for the Sterling Gentran:Structure menus and screens. The screens are listed by title in the order in which they are displayed on the Sterling Gentran:Structure menus.

For a listing of jump codes listed by screen name, see “Jump Codes by Screen Name” on page A-2.

Screen Title	Screen Name	Jump Codes	
		Numeric	Alphabetic
Control Information (Screen 1 with Generic Header Option)	EDIM015	1.2.2.1	PART.CNTL PART.CTL
Control Information (Screen 2 with Generic Options)	EDIM011		
Group Information (Generic)	EDIM034	1.2.3.1	PART.GRP
Transaction Information (Generic)	EDIM044	1.2.4.1	PART.TRN
Standards Maintenance Menu	EDIM100	2.0 2	STD
Version	EDIM110	2.2	STD.VER
Data Element Definition	EDIM160	2.9	STD.DD STD.ELE
User Envelope Specification	EDIM190	2.12	STD.ENV STD.UENV
Version/Outbound Specification	EDIM191		
Sterling Gentran:Structure Envelope Display	EDIM192		
Databank Maintenance Menu	EDIM250	3.0 3	DB
Sterling Gentran:Structure Document Directory	EDIM272	3.13	DB.SDIR
Sterling Gentran:Structure Document Status	EDIM273	3.14	DB.SSTAT
Sterling Gentran:Structure Document Display	EDIM274		

Screen Title	Screen Name	Jump Codes	
		Numeric	Alphabetic
Sterling Gentran:Structure Document Status Detail	EDIM275		
Sterling Gentran:Structure Record Display	EDIM276		
Sterling Gentran:Structure Field Display	EDIM277		
Transaction Maintenance	EDIM503	5.2.2	TRN.DEF TRN.ID
Transaction Maintenance – Sterling Gentran:Structure	EDIM516		
Application Data ID	EDIM552	5.1.2	APP.DEF APP.ID
Fixed Format Pre-processor Path Maintenance	EDIM840		
Fixed/Variable Splitter Path Maintenance	EDIM841		
NCPDP Outbound Parms Maintenance	EDIM84G		

Jump Codes by Screen Name

The following tables list the jump codes for the Sterling Gentran:Plus menus and screens. The screens are listed by screen name (EDIMXXX) and are arranged strictly in alphanumeric order, regardless of the menu arrangement.

For a listing of jump codes listed by screen title, in the order in which they are displayed on Sterling Gentran:Plus menus, see “Jump Codes by Screen Title” on page A-1.

Screen Name	Screen Title	Jump Codes	
		Numeric	Alphabetic
EDIM015	Control Information (Screen 1 with Generic Header Option)	1.2.2.1	PART.CNTL PART.CTL
EDIM011	Control Information (Screen 2 with Generic Options)		
EDIM034	Group Information (Generic)	1.2.3.1	PART.GRP
EDIM044	Transaction Information (Generic)	1.2.4.1	PART.TRN
EDIM100	Standards Maintenance Menu	2.0 2	STD
EDIM110	Version	2.2	STD.VER

Screen Name	Screen Title	Jump Codes	
		Numeric	Alphabetic
EDIM160	Data Element Definition	2.9	STD.DD STD.ELE
EDIM190	User Envelope Specification	2.12	STD.ENV STD.UENV
EDIM191	Version/Outbound Specification		
EDIM192	Sterling Gentran:Structure Envelope Display	3.0 3	DB
EDIM250	Databank Maintenance Menu		
EDIM272	Sterling Gentran:Structure Document Directory	3.13	DB.SDIR
EDIM273	Sterling Gentran:Structure Document Status	3.14	DB.SSTAT
EDIM274	Sterling Gentran:Structure Document Display		
EDIM275	Sterling Gentran:Structure Document Status Display		
EDIM276	Sterling Gentran:Structure Record Display		
EDIM277	Sterling Gentran:Structure Field Display		
EDIM503	Transaction Maintenance	5.2.2	TRN.DEF TRN.ID
EDIM516	Transaction Maintenance – Sterling Gentran:Structure		
EDIM552	Application Data ID	5.1.2	APP.DEF APP.ID
EDIM840	Fixed Format Pre-Processor Path Maintenance		
EDIM841	Fixed/Variable Splitter Path Maintenance		
EDIM84G	NCPDP Outbound Parms Maintenance		

Appendix B Processing NCPDP Data

Overview

This appendix explains how to process NCPDP data using Sterling Gentran:Basic/Realtime/Structure.

Note: For batch processing of inbound and outbound NCPDP transactions, Sterling Gentran:Structure supports only version 5 release 1 transactions. Version 1 release 1 batch envelopes must be used with these transactions.

Assumptions

This appendix assumes that you are familiar with:

- Batch NCPDP data and its implementation requirements.
- Setting up maps and partners in Sterling Gentran.
  See the IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 documentation if you need more information about these processes.

This appendix contains the following topics.

Topic **Page**

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Processing NCPDP Data in Sterling Gentran:Structure

The Sterling Gentran system requires file formats (record and field information) to be defined in the Sterling Gentran standards files for processing. Because the NCPDP standard does not conform with the Sterling Gentran standard format, it must be modified. For this reason, the IBM® Sterling Gentran® Standards for EDI for z/OS® contains a special Sterling Gentran version of the NCPDP Version 5.1 standard. You will build your NCPDP maps using this version of NCPDP Version 5.1.

The version ID is NCPDP51. The agency is SC.

Note: For information on how to load a standard to your system, see the "Standards Maintenance" section of Chapter 4 of the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 Technical Reference Guide*.

For outbound processing, the Mapper translates your application data into the Sterling Gentran-specified format. A special Sterling Gentran:Structure program has been created to reformat this NCPDP data into the true outgoing NCPDP format. The program is NCPDP51O for Sterling Gentran:Basic and EDIRNCPO for Sterling Gentran:Realtime.

For inbound processing, another special program reformats the incoming NCPDP data into the Sterling Gentran-specified format. This program is NCPDP51I for Sterling Gentran:Basic for z/OS and EDIRNCPI for Sterling Gentran:Realtime. Once reformatted, the NCPDP data can be processed through the Sterling Gentran:Structure Pre-Processor and then the Mapper to be translated into your application data.

Key Terms

NCPDP requires some different terminology than Sterling Gentran. The following table describes terms you need in order to understand the rest of the information in this appendix.

Term	Description
NCPDP51	The version ID to define the Sterling Gentran-specific NCPDP layout in Sterling Gentran standards files.
Batch envelopes	Envelopes that surround an NCPDP transmission. Valid batch envelopes are: Batch Transaction Header – segment ID = 00 Batch Transaction Detail – segment ID = G1 Batch Transaction Trailer – segment ID = 99
Transaction header	The first segment of a request transmission. It contains the transaction code that identifies the type of request.
Response header	The first segment of a response transmission. It contains the transaction code that identifies the type of response.
NCPDP transmission	A group of segments starting with either a transaction header segment or a response header segment, and including all of the segments associated with that NCPDP document.
NCPDP file	An NCPDP transmission with its surrounding batch envelopes.

Term	Description
NCPDP transaction	A group of segments that together contain the detail information about the request or response. Up to four transactions can make up a transmission, except for the eligibility request. (NCPDP restricts he eligibility request, transaction code E1, to one request per transaction.)
Sterling Gentran transaction ID	In Sterling Gentran, this is the field used to identify the transaction being processed or generated.

The Sterling Gentran NCPDP51 Standard

This section describes the Sterling Gentran-specific NCPDP standard, including transaction level, segment and segment element requirements for processing NCPDP data. In addition to reviewing the information provided here, we recommend you use the Online Standards Subsystem or run the EXEC036 Standards Print job found in Sterling Gentran:Basic to review the Sterling Gentran NCPDP51 standard.

In NCPDP terminology, a transmission is the highest level of data file. The transmission contains information that pertains to the entire file. A transaction occurs within a transmission, and there can be up to four transactions per transmission. In the Sterling Gentran NCPDP51 standard, all of the segments required for an NCPDP transmission are found in a single NCPDP51 transaction. The batch header envelopes (00, G1, transaction header, and response header) and transmission level segments appear in the header section of the Sterling Gentran transaction. The NCPDP transaction level segments appear in the detail section of the transaction in a loop that occurs a maximum of four times. The batch trailer envelope (99 segment) appears in the summary section of the Sterling Gentran transaction.

Transaction Level Information

Fourteen request-type transactions exist in the NCPDP51 version. The first two characters of the transaction ID match its corresponding NCPDP transaction code, and the third character is the letter Q, which designates that the transaction is a request type transaction. (The table below provides a list of transactions.)

Because all responses are essentially built from the same segments, the NCPDP51 standard needs only a single transaction ID for translating all response type transactions. The NCPDP51 transaction ID for responses is R1.

The following table describes the transaction IDs in Sterling Gentran Standard Version NCPDP51.

Sterling Gentran Transaction ID	NCPDP Transaction Code	Description
B1Q	B1	Billing request
B2Q	B2	Reversal request
B3Q	B3	Rebill request
C1Q	C1	Controlled substance reporting request

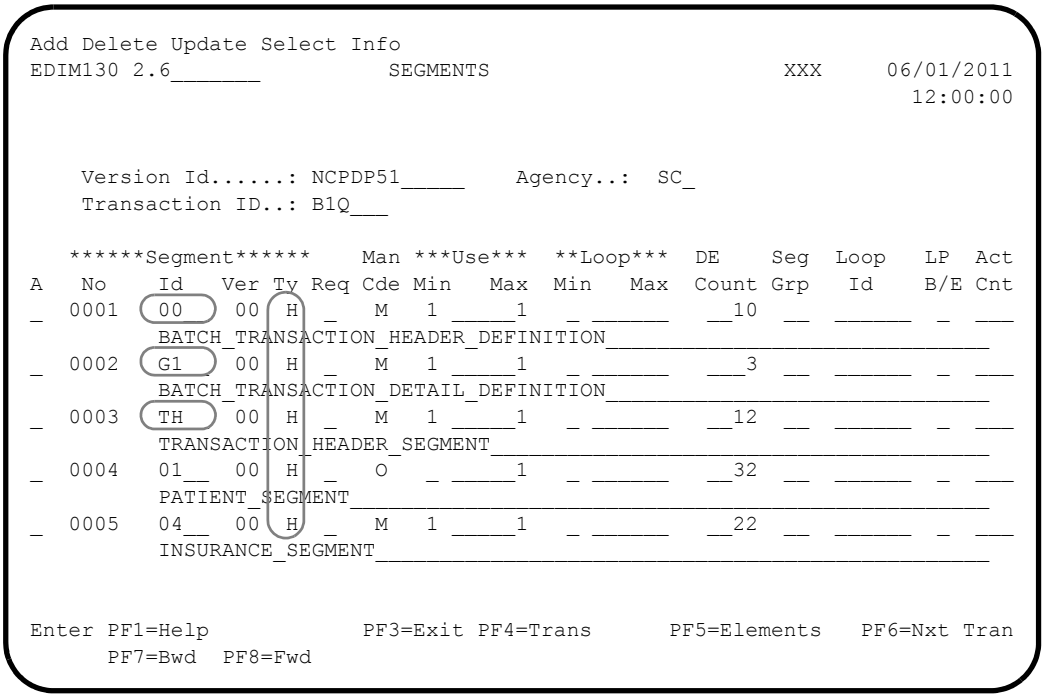
Sterling Gentran Transaction ID	NCPDP Transaction Code	Description
C2Q	C2	Controlled substance reporting reversal request
C3Q	C3	Controlled substance reporting rebill request
E1Q	E1	Eligibility request
N1Q	N1	Information reporting request
N2Q	N2	Information reporting reversal request
N3Q	N3	Information reporting rebill request
P1Q	P1	Prior authorization request and billing
P2Q	P2	Prior authorization reversal request
P3Q	P3	Prior authorization inquiry request
P4Q	P4	Prior authorization request only
R1	B1, B2, B3, C1, C2, C3, E1, N1, N2, N3, P1, P2, P3, P4	Generic response transaction – The R1 transaction ID should be used to build maps for all response type documents

Segment Information

Because NCPDP does not define a segment ID for the transaction header and response header segments, Sterling Gentran uses the values TH and RH, respectively, to refer to these segments.

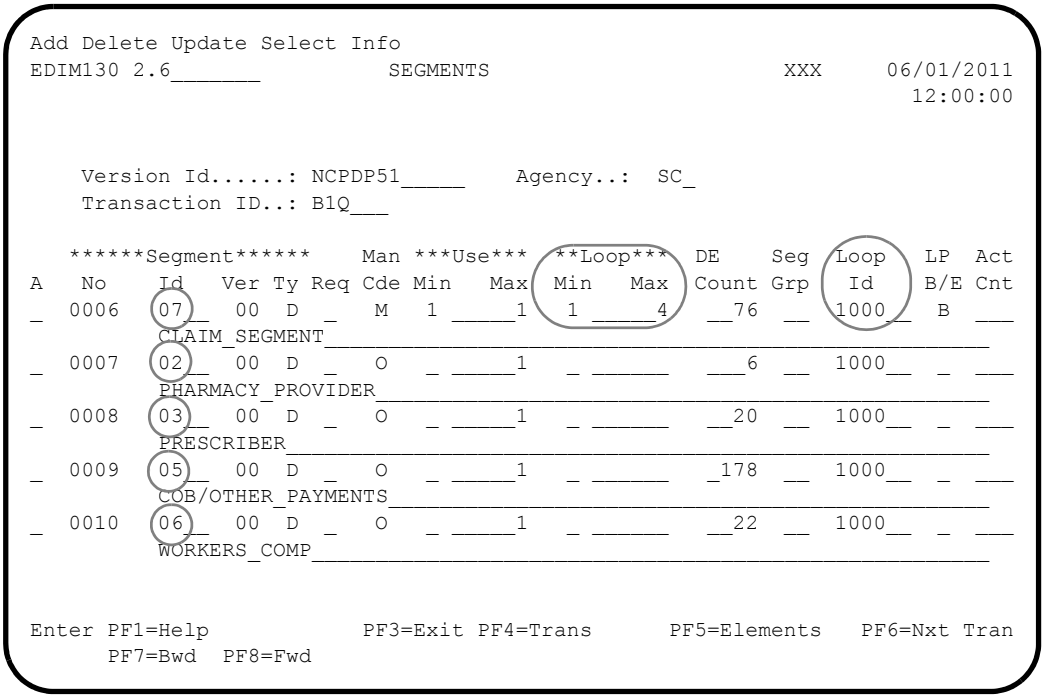
Each NCPDP51 transaction includes the version 1 release 1 batch envelopes (segment IDs 00, G1 and 99). This enables you to map data from your application data to the NCPDP fixed format structure when processing outbound NCPDP data, just as you would map any other segment in the transaction. For inbound processing, the presence of the envelopes in each transaction also allows you to map data from the envelopes directly to your application data, just as you would map any other segment.

In the following diagram, the 00, G1, and TH envelopes appear as a part of the B1Q transaction. The envelopes and the transmission level segments (01 and 04) are defined in the header section of the B1Q transaction.



```
Add Delete Update Select Info
EDIM130 2.6_______          SEGMENTS                        XXX     06/01/2011
                                                                      12:00:00


    Version Id......: NCPDP51_____    Agency..:  SC_
    Transaction ID..: B1Q___

   ******Segment******    Man ***Use***  **Loop***  DE    Seg  Loop   LP  Act
A   No    Id   Ver Ty Req Cde Min   Max  Min   Max  Count Grp  Id    B/E Cnt
_  0001   00__  00  H   _    M   1 _____1   _ ______  __10  __ ______  _  ___
          BATCH_TRANSACTION_HEADER_DEFINITION_____________________________
_  0002   G1__  00  H   _    M   1 _____1   _ ______  ___3  __ ______  _  ___
          BATCH_TRANSACTION_DETAIL_DEFINITION_____________________________
_  0003   TH__  00  H   _    M   1 _____1   _ ______  __12  __ ______  _  ___
          TRANSACTION_HEADER_SEGMENT______________________________________
_  0004   01__  00  H   _    O   _ _____1   _ ______  __32  __ ______  _  ___
          PATIENT_SEGMENT_________________________________________________
_  0005   04__  00  H   _    M   1 _____1   _ ______  __22  __ ______  _  ___
          INSURANCE_SEGMENT_______________________________________________


Enter PF1=Help            PF3=Exit PF4=Trans      PF5=Elements   PF6=Nxt Tran
      PF7=Bwd  PF8=Fwd
```

In the following diagram, the transaction level segments (07, 02, 03, 05, 06) are defined in the detail section of the B1Q transaction in a loop (loop ID = 1000) that occurs four times.



```
Add Delete Update Select Info
EDIM130 2.6_______          SEGMENTS                        XXX     06/01/2011
                                                                      12:00:00


    Version Id......: NCPDP51_____    Agency..:  SC_
    Transaction ID..: B1Q___

   ******Segment******    Man ***Use***  **Loop***  DE    Seg  Loop   LP  Act
A   No    Id   Ver Ty Req Cde Min   Max  Min   Max  Count Grp  Id    B/E Cnt
_  0006   07__  00  D   _    M   1 _____1   1 _____4  __76  __ 1000__  B  ___
          CLAIM_SEGMENT___________________________________________________
_  0007   02__  00  D   _    O   _ _____1   _ ______  ___6  __ 1000__  _  ___
          PHARMACY_PROVIDER_______________________________________________
_  0008   03__  00  D   _    O   _ _____1   _ ______  __20  __ 1000__  _  ___
          PRESCRIBER______________________________________________________
_  0009   05__  00  D   _    O   _ _____1   _ ______  _178  __ 1000__  _  ___
          COB/OTHER_PAYMENTS______________________________________________
_  0010   06__  00  D   _    O   _ _____1   _ ______  __22  __ 1000__  _  ___
          WORKERS_COMP____________________________________________________


Enter PF1=Help            PF3=Exit PF4=Trans      PF5=Elements   PF6=Nxt Tran
      PF7=Bwd  PF8=Fwd
```

In the following diagram, the Batch Transaction Trailer (99 segment) appears as a part of the B1Q transaction, defined in the summary section of the transaction.

```
Add Delete Update Select Info
EDIM130 2.6_______          SEGMENTS                        XXX     06/01/2011
                                                                      12:00:00


    Version Id......: NCPDP51_____    Agency..:  SC_
    Transaction ID..: B1Q___

   ******Segment******    Man ***Use***  **Loop***  DE    Seg  Loop   LP  Act
A   No    Id   Ver Ty Req Cde Min   Max  Min   Max  Count Grp   Id    B/E Cnt
_  0013   09__  00  D  _   O   _ _____1   _ ______   ___8  __  1000__  _  ___
          COUPON_____________________________________________________________
_  0014   10__  00  D  _   O   _ _____1   _ ______  _260  __  1000__  _  ___
          COMPOUND___________________________________________________________
_  0015   12__  00  D  _   O   _ _____1   _ ______  __28  __  1000__  _  ___
          PRIOR_AUTHORIZATION________________________________________________
_  0016   13__  00  D  _   O   _ _____1   _ ______  __84  __  1000__  E  ___
          CLINICAL___________________________________________________________
_  0017   99__  00  S  _   M   1 _____1   _ ______  ___5  __  ______  _  ___
          BATCH_TRANSACTION_TRAILER_DEFINITION_______________________________


Enter PF1=Help            PF3=Exit PF4=Trans      PF5=Elements   PF6=Nxt Tran
      PF7=Bwd  PF8=Fwd
```

Segment Element Information

The segment ID for each segment is a 2-character field that begins in the third position of each segment.

The field tags, where applicable, are defined in each segment prior to the actual segment field.

> **Note:** There are no field tags in the envelope segments.

The NCPDP51 standard in Sterling Gentran has taken the segments used in each NCPDP version 5 release 1 transaction and expanded them to their maximum possible length with each element (field) in a fixed position.

> **Note:** All possible field repeats and group repeats are defined in each segment, with the exception of the Compound segment (segment ID = 10). The NCPDP version 5 release 1 implementation guide allows 99 ingredients to be present in the Compound segment. Due to the limitation of the number of elements allowed per segment, Sterling Gentran will only support 98 occurrences of the ingredient component group.

The following diagram illustrates:

- The segment ID as the second element for each segment.
- The element/field tags as every other element (see sequence numbers 0001, 0003, 0005, 0007, 0009) within the segment.

```
Add Update Delete Select Info
EDIM140 2.7_______            SEGMENT ELEMENT              XXX     06/01/2011
                                                                     12:00:00


   Version Id...:  NCPDP51_____    Agency..:  SC_
   Segment Id...:  07__   Segment Version..:  00

   Seq   Ele  Sub Man Com Ad  Element       **Group**
A  Num   Seq  Ele Ele Ele In  Id   Ver  R    Dsg  Ty  Description          C
_  0001  001  000  M   M    _  001__ 00 0001  _____ _  ELEMENT TAG
_  0002  002  000  M   M    _  111__ 00 0001  _____ _  SEGMENT IDENTIFICATIO
_  0003  003  000  M   M    _  001__ 00 0001  _____ _  ELEMENT TAG
_  0004  004  000  M   M    _  455__ 00 0001  _____ _  PRESCRIPTION/SERVICE
_  0005  005  000  M   M    _  001__ 00 0001  _____ _  ELEMENT TAG
_  0006  006  000  M   M    _  402__ 00 0001  _____ _  PRESCRIPTION/SERVICE
_  0007  007  000  M   M    _  001__ 00 0001  _____ _  ELEMENT TAG
_  0008  008  000  M   M    _  436__ 00 0001  _____ _  PRODUCT/SERVICE ID QU
_  0009  009  000  M   M    _  001__ 00 0001  _____ _  ELEMENT TAG
_  0010  010  000  M   M    _  407__ 00 0001  _____ _  PRODUCT/SERVICE ID


Enter PF1=Help PF2=Actvty PF3=Exit PF4=Segment    PF5=Elem Def   PF6=Nxt Seg
      PF7=Bwd  PF8=Fwd
```

If you are in the online Standards Subsystem and press **PF8=Fwd** to scroll through a segment, you will see that all possible elements for the segment (mandatory and optional) appear in the segment.

Processing Outbound NCPDP Data

This section describes the system flow for translating data into batch NCPDP version 5 release 1 data, and details the proper setup required to process the data.

Before Sterling Gentran:Structure can process NCPDP data, the data must be translated into a fixed-format composition as defined in the standards files. For outbound processing, Sterling Gentran:Structure translates your application data into Sterling Gentran-specified fixed format records, and then runs the data through a program to compress the data into true outgoing NCPDP data.

> **Note:** See the Sterling Gentran online standards files under version NCPDP51, agency SC, for the layout of the Sterling Gentran fixed format structure for NCPDP data.

Processing outbound NCPDP data through Sterling Gentran:Structure requires extra set-up in addition to normal Sterling Gentran procedures. You must complete the following tasks according to the information provided in the next section of this chapter:

- Define and build your application definition.
- Define and build your transaction map.
- Define user envelopes (optional).
- Set up your partner profile.
- Prepare to run outbound processing.

Figure B.1 illustrates the system flow for translating your application data into batch NCPDP version 5 release 1 data. The requirements for the tasks listed above follow the diagram.

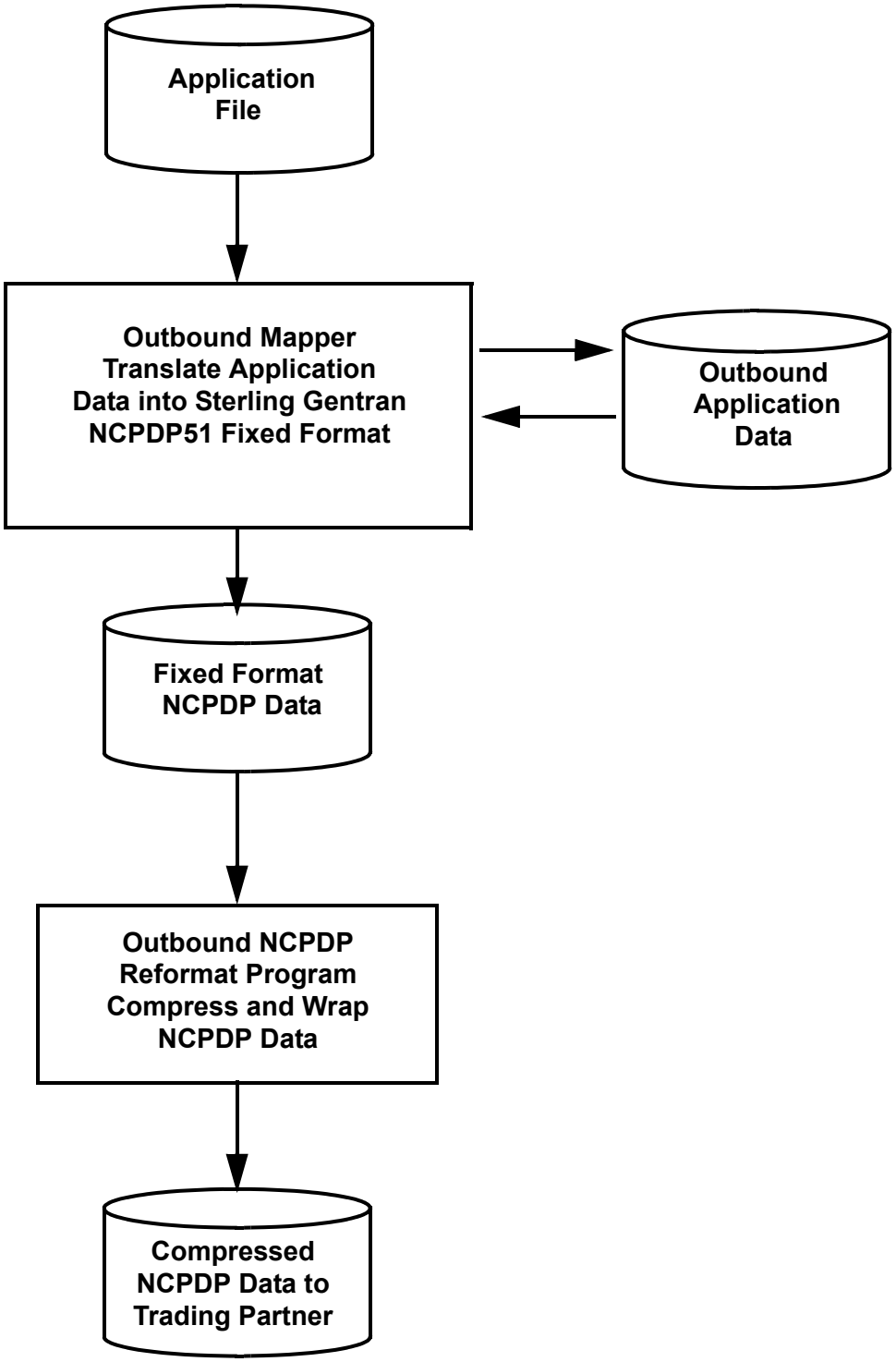


Figure B.1 System Flow – Translating Application Data into Batch NCPDP Data

Define and Build Your Application Definition

You will use the online mapping subsystem to enter your application definition.

On the Application Data ID screen (EDIM552), the value in the Functional Group field should match the NCPDP51 transaction ID to which this application data will be translated. The following diagram illustrates the screen.

```
EDIM552 5.1.2_____        APPLICATION DATA ID                XXX  06/01/2011
                                                                      12:00:00


    Application Data ID.......:  RAENCPDP1_   Send or Receive:  S
    Division Code.............:  000
    Description...............:  NCPDP_APPLICATION_DEFINITION__
    Functional Group..........:  B1Q___  ______   ______
                                 ______  ______
    Fixed or Variable Length..:  F   (F/V)
    Record Length.............:  00255
    Record Type Start Pos.....:  00001          Length.......:  03
    Inbound Pass-Thru.........:  _
    Underscore Character......:  _
    Update Allowed............:  Y

    Last Update User..........:  XXX            Date.........:  06/01/11
                                                Time.........:  12:00:00



Enter PF1=Help PF2=Copy   PF3=Exit PF4=Dir        PF5=Records    PF6=Refer
                       PF9=Add PF10=Updt PF11=Del PF12=NuMap PF13=Envel
```

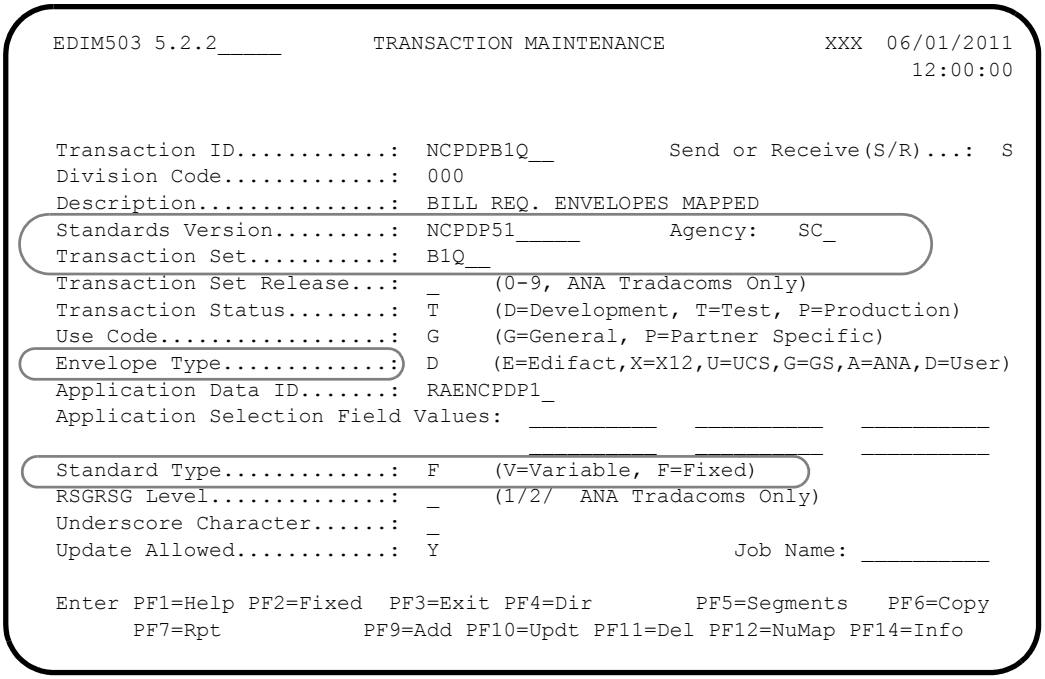
Define and Build Your Transaction Map

You use two initial screens to add a new Sterling Gentran:Structure map using the online mapping subsystem.

Set up the first screen, the Transaction Maintenance screen (EDIM503), with the following information:

In This Field...	Enter This Value
Standards Version	NCPDP51
Agency	SC
Transaction Set	(A transaction ID found in version NCPDP51)
Envelope Type	D (this indicates that this is a user-defined standard)
Standard Type	F (indicates a fixed-format standard)

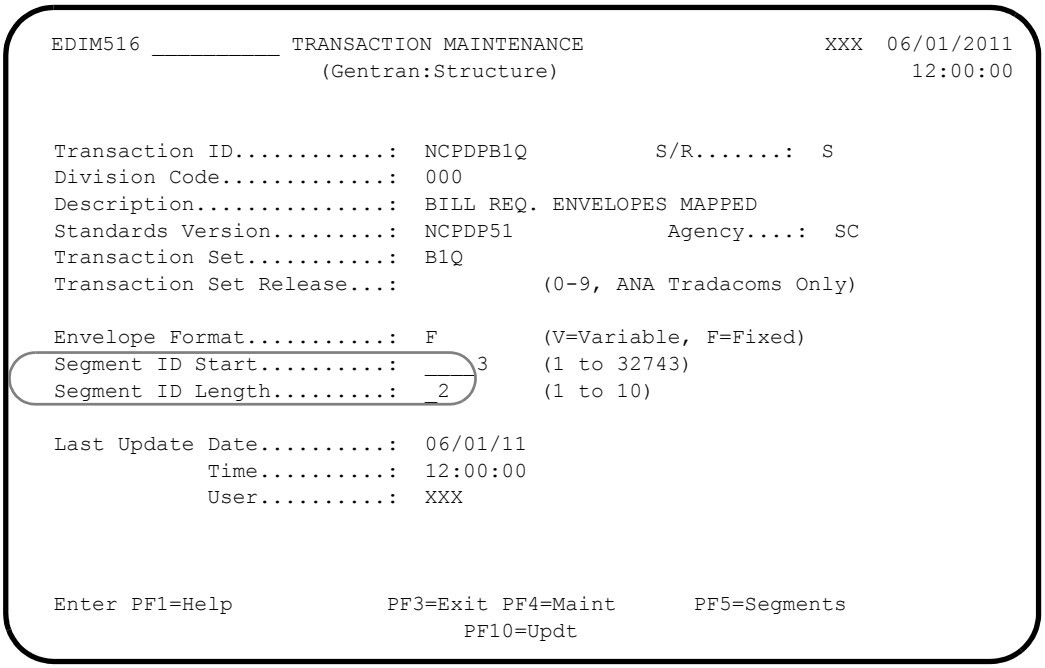
The following diagram illustrates the screen.



When you press **PF9=Add** to add the new map, the system displays the Transaction Maintenance – Sterling Gentran:Structure screen (EDIM516). Enter the following information on this screen:

In This Field...	Enter This Value
Segment ID Start	3
Segment ID Length	2

The following diagram illustrates the screen.



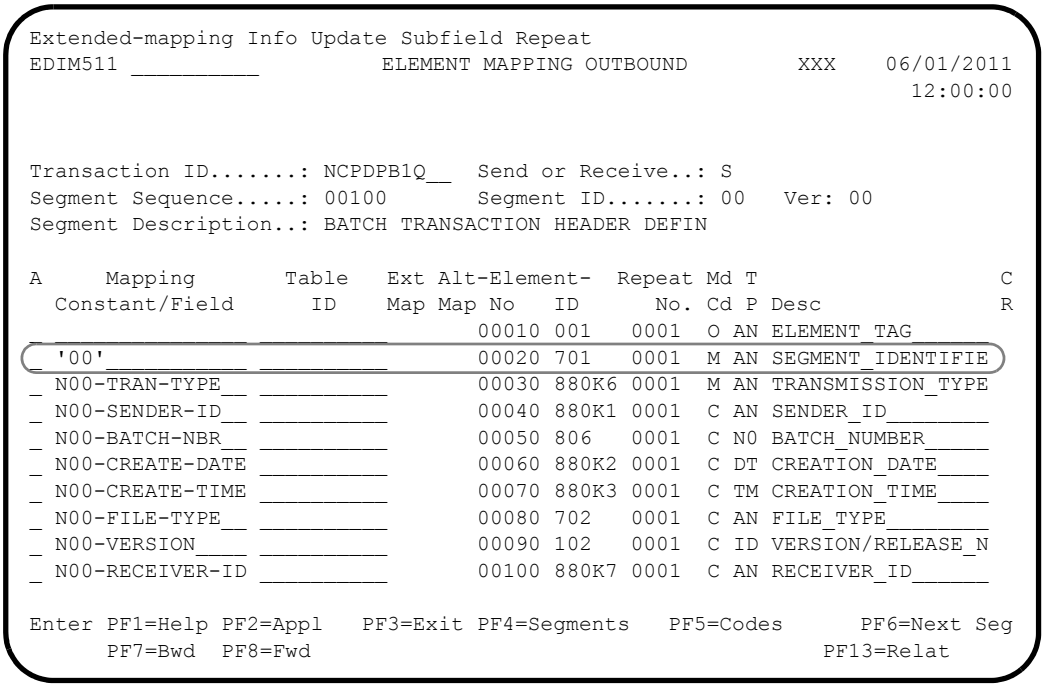
Once the transaction map definition is complete, copy the desired segments for the transaction you will be processing from the NCPDP51 version, and proceed with mapping the data as you would with any other Sterling Gentran map.

Keep in mind the following specifics when mapping NCPDP data.

- Because the segment ID is a part of each segment, you must map the segment ID for each segment.

  Normally, the Outbound Mapper populates the segment ID for you when processing ASC X12, EDIFACT, and Tradacoms type data through Sterling Gentran. This is not the case for NCPDP data. Specifically, you must map the segment ID value into the segment ID element for each segment that you map.

In the following diagram, the literal value 00 is being mapped to the segment identifier element when mapping the 00 batch transaction header definition segment.



```
Extended-mapping Info Update Subfield Repeat
EDIM511 __________          ELEMENT MAPPING OUTBOUND         XXX    06/01/2011
                                                                      12:00:00


Transaction ID.......: NCPDPB1Q__  Send or Receive..: S
Segment Sequence.....: 00100       Segment ID........: 00   Ver: 00
Segment Description..: BATCH TRANSACTION HEADER DEFIN

A     Mapping       Table   Ext Alt-Element-  Repeat Md T                    C
  Constant/Field      ID    Map Map No   ID      No. Cd P Desc                R
_ _______________ __________        00010 001   0001  O AN ELEMENT_TAG_______
_ '00'__________ __________         00020 701   0001  M AN SEGMENT_IDENTIFIE
_ N00-TRAN-TYPE__ __________        00030 880K6 0001  M AN TRANSMISSION_TYPE
_ N00-SENDER-ID__ __________        00040 880K1 0001  C AN SENDER_ID_________
_ N00-BATCH-NBR__ __________        00050 806   0001  C N0 BATCH_NUMBER______
_ N00-CREATE-DATE __________        00060 880K2 0001  C DT CREATION_DATE_____
_ N00-CREATE-TIME __________        00070 880K3 0001  C TM CREATION_TIME_____
_ N00-FILE-TYPE__ __________        00080 702   0001  C AN FILE_TYPE_________
_ N00-VERSION____ __________        00090 102   0001  C ID VERSION/RELEASE_N
_ N00-RECEIVER-ID __________        00100 880K7 0001  C AN RECEIVER_ID_______

Enter PF1=Help PF2=Appl   PF3=Exit PF4=Segments   PF5=Codes      PF6=Next Seg
      PF7=Bwd  PF8=Fwd                                          PF13=Relat
```

- You must map the NCPDP field tags (Sterling Gentran will not handle this for you).

  If your application data contains the field tag values, you can map them from your application data. Otherwise, you can map literal values into the field tag fields.

The following diagram illustrates literal values being mapped to the NCPDP fields tags.

```
Extended-mapping Info Update Subfield Repeat
EDIM511 __________          ELEMENT MAPPING OUTBOUND         XXX    06/01/2011
                                                                      12:00:00


Transaction ID.......: NCPDPB1Q__  Send or Receive..: S
Segment Sequence.....: 00500       Segment ID.......: 04   Ver: 00
Segment Description..: INSURANCE SEGMENT

A     Mapping       Table   Ext Alt-Element-  Repeat Md T                    C
  Constant/Field      ID    Map Map No   ID      No. Cd P Desc                R
_ 'AM'___________ __________       00010 001   0001  M AN ELEMENT_TAG______
_ '04'___________ __________       00020 111   0001  M ID SEGMENT_IDENTIFIC
_ 'C2'___________ __________       00030 001   0001  M AN ELEMENT_TAG______
_ N04-CARD-ID____ __________       00040 302   0001  M AN CARDHOLDER_ID____
_ 'CC'___________ __________       00050 001   0001  O AN ELEMENT_TAG______
_ N04-FIRST_NAME_ __________       00060 312   0001  O AN CARDHOLDER_FIRST_
_ 'CD'___________ __________       00070 001   0001  O AN ELEMENT_TAG______
_ N04-LAST_NAME__ __________       00080 313   0001  O AN CARDHOLDER_LAST_N
_ _______________ __________       00090 001   0001  O AN ELEMENT_TAG______
_ _______________ __________       00100 314   0001  O AN HOME_PLAN________

Enter PF1=Help PF2=Appl   PF3=Exit PF4=Segments   PF5=Codes      PF6=Next Seg
      PF7=Bwd  PF8=Fwd                                          PF13=Relat
```

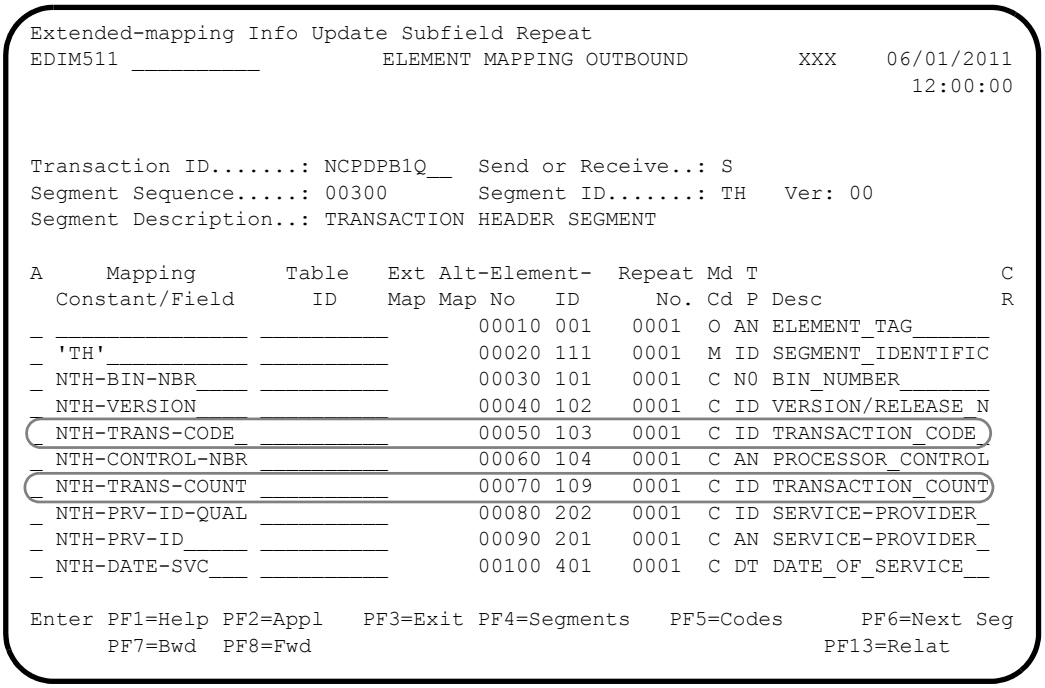
- The Sterling Gentran transaction IDs do not match the NCPDP transaction codes, so you must map the NCPDP transaction code on the transaction header (TH) and response header (RH) segments.

  You can either map the transaction code value from your application, or map a literal value into the transaction code element.

Example
If you are sending a billing request transaction to a trading partner, you are responsible for mapping the true NCPDP transaction code value (in this case B1) to the transaction code field on the TH segment. Sterling Gentran processes as if it is processing a B1Q transaction and therefore can not map the Sterling Gentran transaction ID into the Transaction Code field.

- If your application data has the information available, you may map the transaction count field on the TH and RH segment from your application. However, if your application data does not have the number of transactions in the transmission available, the Outbound NCPDP Reformat program (NCPDP51O) will calculate this value for you.

The following diagram illustrates the NCPDP Transaction Code and the NCPDP Transaction Count being mapped to the TH segment from the application data.



```
Extended-mapping Info Update Subfield Repeat
EDIM511 __________          ELEMENT MAPPING OUTBOUND         XXX    06/01/2011
                                                                      12:00:00


Transaction ID.......: NCPDPB1Q__  Send or Receive..: S
Segment Sequence.....: 00300       Segment ID........: TH   Ver: 00
Segment Description..: TRANSACTION HEADER SEGMENT

A     Mapping        Table   Ext Alt-Element-  Repeat Md T                   C
  Constant/Field       ID    Map Map No    ID      No. Cd P Desc              R
_ _______________ __________       00010 001   0001  O AN ELEMENT_TAG______
_ 'TH'___________ __________       00020 111   0001  M ID SEGMENT_IDENTIFIC
_ NTH-BIN-NBR____ __________       00030 101   0001  C N0 BIN_NUMBER_______
_ NTH-VERSION____ __________       00040 102   0001  C ID VERSION/RELEASE_N
_ NTH-TRANS-CODE_ __________       00050 103   0001  C ID TRANSACTION_CODE_
_ NTH-CONTROL-NBR __________       00060 104   0001  C AN PROCESSOR_CONTROL
_ NTH-TRANS-COUNT __________       00070 109   0001  C ID TRANSACTION_COUNT
_ NTH-PRV-ID-QUAL __________       00080 202   0001  C ID SERVICE-PROVIDER_
_ NTH-PRV-ID_____ __________       00090 201   0001  C AN SERVICE-PROVIDER_
_ NTH-DATE-SVC___ __________       00100 401   0001  C DT DATE_OF_SERVICE__

Enter PF1=Help PF2=Appl   PF3=Exit PF4=Segments   PF5=Codes      PF6=Next Seg
      PF7=Bwd  PF8=Fwd                                          PF13=Relat
```

Defining User Envelopes (Optional)

For outbound processing, Sterling Gentran:Structure allows you to pull information from the partner profile when you build your envelope segments.

You can accomplish this by identifying special user envelopes. The envelope segments (00, G1, TH, RH, 99) are a part of each Sterling Gentran NCPDP51 transaction, so you can map to these segments from your application data. All of the information you need to map all of the fields in the envelope segments may be in your application data. If this is the case, you do not need to define user envelopes for NCPDP51 outbound processing. However, if you want certain information to be pulled from the Sterling Gentran partner profile to populate some of the envelope fields (e.g., the batch number on the 00 envelope), you must define special user envelopes in the Sterling Gentran:Structure User Envelope file.

> **Note:** If you are not defining user envelopes, you can skip this section and proceed to the next section, *Setting Up Partner Profiles*.

Because the envelopes in the User Envelope file can not have the same segment IDs as the envelope segments found in the transactions themselves (00, G1, TH, RH, 99), you must use X versions of the envelopes in the User Envelope file. The values for the special segment IDs that you will use for your outbound user envelopes in the User Envelope file have already been pre-determined by Sterling Gentran.

The following table describes how the X versions of the envelopes relate to the NCPDP51 batch envelopes.

Envelope Segment ID found in NCPDP51 Transactions	Corresponding "X" version of the Envelope to be used in User Envelope File	Description
00	0X	Batch Transaction Header Definition
G1	GX	Batch Transaction Detail Definition
TH	TX	Transaction Header Segment
RH	RX	Response Header Segment
99	9X	Batch Transaction Trailer Definition

The X versions of the envelopes have a fixed record layout that may or may not match their corresponding NCPDP envelopes. You may not modify these layouts. You must enter all of the X envelopes on the User Envelope Specification screen (EDIM190). The following tables describe the layouts for the X envelopes. You will use this information in the EDIM190 screen for user and partner, and EDIM191 for other fields.

See the example later in this section for a more detailed explanation.

0X – Batch Transaction Header Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Sender ID	AN	5	24
Batch Number	N	29	7
Creation Date	N	36	8
Creation Time	N	44	4
File Type	AN	48	1
Version Release	AN	49	2
Receiver ID	AN	51	24
GX – Batch Transaction Detail Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Transaction Reference Number	AN	5	10
TX – Transaction Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
BIN Number	N	5	6
Version Release	AN	11	2
Transaction Code	AN	13	2
Control Number	AN	15	10
Service Provider ID Qualifier	AN	25	2
Service Provider ID	AN	27	15
Date of Service	N	42	8
Vendor Certification ID	AN	50	10

RX – Response Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Version Release	AN	5	2
Service Provider ID Qualifier	AN	7	2
Service Provider ID	AN	9	15
Date of Service	N	24	8

9X – Batch Transaction Trailer Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Batch Number	N	5	7

Note: The X versions of the envelopes do not contain all fields found in the actual NCPDP envelopes. Only that information that can be pulled from the partner profile is included. For example, the Transmission Type field on the 00 envelope, which indicates whether the batch of data is a transaction, response, or an error, must come from the application since that field will change each time you send a batch of data to a particular partner.

When you use the X envelopes, the Outbound Mapper generates these segments and writes them to the fixed output file. The NCPDP51O Reformat program merges the information from the X envelopes with the actual NCPDP envelopes (00, G1, TH, RH, 99) mapped to from your application data. If a field on an actual NCPDP batch envelope (00, G1, TH, RH, 99) is spaces, NCPDP51O checks to see if there is an X version of the envelope and moves any field from the X envelope to the actual envelope.

See Chapter 4, “Program Descriptions,” for a description of the NCPDP51O program.

To use the X envelopes to pull information from the partner profile, you must define all of the X envelopes (0X, GX, TX, RX, 9X) in the User Envelope file.

Note: Trying to pass data that has the 0X and TX segment but no GX or 9X to the NCPDP51O reformat program will not work. You do not necessarily have to pull information from the partner profile for all of the X envelopes, but you must define all of them in the User Envelope file so that they will be generated by the Outbound Mapper.

The following diagram illustrates how to set up your X envelopes on the Version Envelope Specification screen. Note the following requirements.

- The 0X envelope must have a Level of BI to denote a beginning interchange envelope.
- The 0X envelope must have an Associated Trailer of 9X.
- The GX envelope must have a Level of BG to denote a beginning group envelope.
- The TX and RX envelopes must have a Level of BT to denote a beginning transaction envelope.
- The 9X envelope must have a Level of EI to denote an ending interchange envelope.
- The 9X envelope must have an Associated Header of 0X.
- All X envelopes must have a Segment ID Start value of 3 and a Segment ID Length value of 2.

```
Add Delete Update Version/outbound-specification
EDIM190 2.12______      USER ENVELOPE SPECIFICATION          XXX    06/01/2011
                                                                      12:00:00


Starting Segment ID..: 0X________


A ---Segment-- -Seg  ID- -Env-  -Usr ID-  -Prt ID- -Associated- Ver  Last Updt
     ID    Mod  Start Ln Lvl D  Start Ln  Start Ln Hdr/Trl  Mod Spc  Date User
_ GX________ _ ____3 _2  BG B  _____ __  _____ __ __________ _  Y  062801 XXX
_ PHD_______ _ ___78 _3  BI B  _____ __      1 15 __________ _  Y  010698 XXX
_ RX________ _ ____3 _2  BT B  _____ __  _____ __ __________ _  Y  071101 XXX
_ THD_______ _ ___78 _3  BT B  _____ __  _____ __ __________ _  Y  042897 XXX
_ TX________ _ ____3 _2  BT B  _____ __  _____ __ __________ _  Y  071101 XXX
_ 0X________ _ ____3 _2  BI B  _____ __  _____ __ 9X________ _  Y  071101 XXX
_ 20________ _ ____1 _3  BI B  _____ __  ____8 _9 99________ _  Y  041796 XXX
_ 20G_______ _ ____1 _3  BG B  _____ __  _____ __ 99G_______ _  N  041796 XXX
_ 20T_______ _ ____1 _3  BT B  _____ __  _____ __ 99T_______ _  N  041796 XXX
_ 9X________ _ ____3 _2  EI B  _____ __  _____ __ 0X________ _  Y  062801 XXX

                                                  STATUS..ADD: 1 DEL: 0 UPD: 0
Enter PF1=Help            PF3=Exit
      PF7=Bwd  PF8=Fwd
```

Version/Outbound Specifications

This section contains diagrams to illustrate how to enter your Version/Outbound Specifications for each of the X envelopes. Please note that these are only examples. How you build your X envelopes depends on which elements on the envelope segments you want to pull from the partner profile.

Example 1: 0X Segment

The following diagram illustrates the Version/Outbound Specification screen for the OX segment.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION          XXX  06/01/2011
                                                                    12:00:00


Segment ID...........:  0X            Modifier:              Length:  ___74
Default Version ID...: ____________  Agency..:  ___  Transaction ID:  ______

Envelope Field       Start    Length   Envelope Field       Start    Length
-------------------- -----    ------   -------------------- -----    ------

Version ID.........: ___49       _2     Transaction ID.....: _____       __
Sender ID..........: ____5       15     Receiver ID........: ___51       15
Reference Number...: ___29       _7     Generic Element 1..: ___48       _1
Generic Element 2..: _____       __     Generic Element 3..: _____       __
Generic Element 4..: _____       __     Generic Element 5..: _____       __
Generic Element 6..: _____       __     Generic Element 7..: _____       __
Generic Element 8..: _____       __     Generic Element 9..: _____       __
Generic Element 10.: _____       __     Current Date.......: ___36       _8
Current Time.......: ___44       _4     Current Date Format: YY
                        Last Update Date: 06/01/11 Time: 12:00:00 User: XXX

Enter PF1=Help          PF3=Exit PF4=User                    PF6=Nxt Env
                               PF10=Updt
```

These values are described below.

Note the following when reviewing this example:

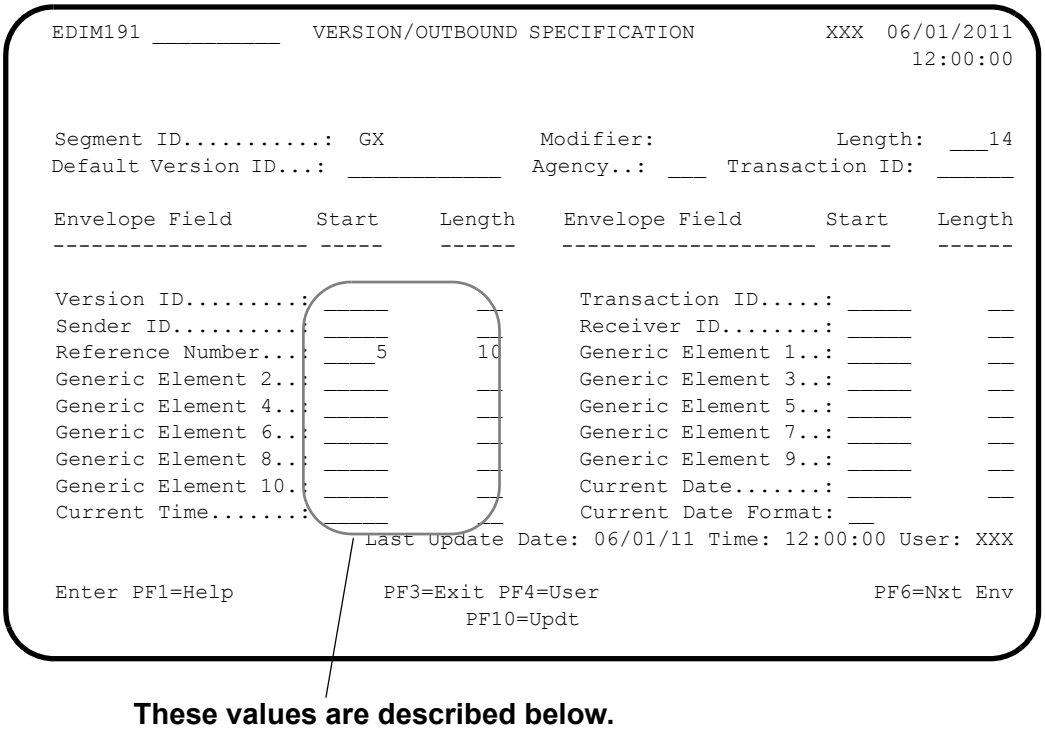
- The segment length is 74; the length of the 0X segment will always be 74.
- If you review the record layout for the 0X segment in the following table, you will see that the following elements will be populated on the 0X segment:
  - Version release (version ID)
  - Sender ID
  - Receiver ID
  - Batch number (reference number)
  - File type (generic element 1)
  - Creation date (current date)
  - Creation time (current time)

0X – Batch Transaction Header Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Sender ID	AN	5	24
Batch Number	N	29	7
Creation Date	N	36	8
Creation Time	N	44	4
File Type	AN	48	1
Version Release	AN	49	2
Receiver ID	AN	51	24

- If you want to pull the sender and receiver IDs from the partner profile for the 0X segment, you must take one limitation into account. The length of the sender and receiver IDs on the 0X /00 segment is 24 characters. The maximum length you can enter in the Sender ID and Receiver ID fields on the EDIM191 screen is 15. Therefore, if you use these fields, your sender and receiver IDs can only have 15 characters. The Mapper pads the right-most nine positions with spaces.
- You can use a generic element to pull the receiver and sender IDs from the partner profile, but the maximum length allowed for a generic element is 20. Therefore, if you need to send a full 24 character sender or receiver ID on the outgoing 00 segment, you must map the value from your application data.

Examp1e 2: GX Segment

The following diagram illustrates the Version/Outbound Specification screen for the GX segment.



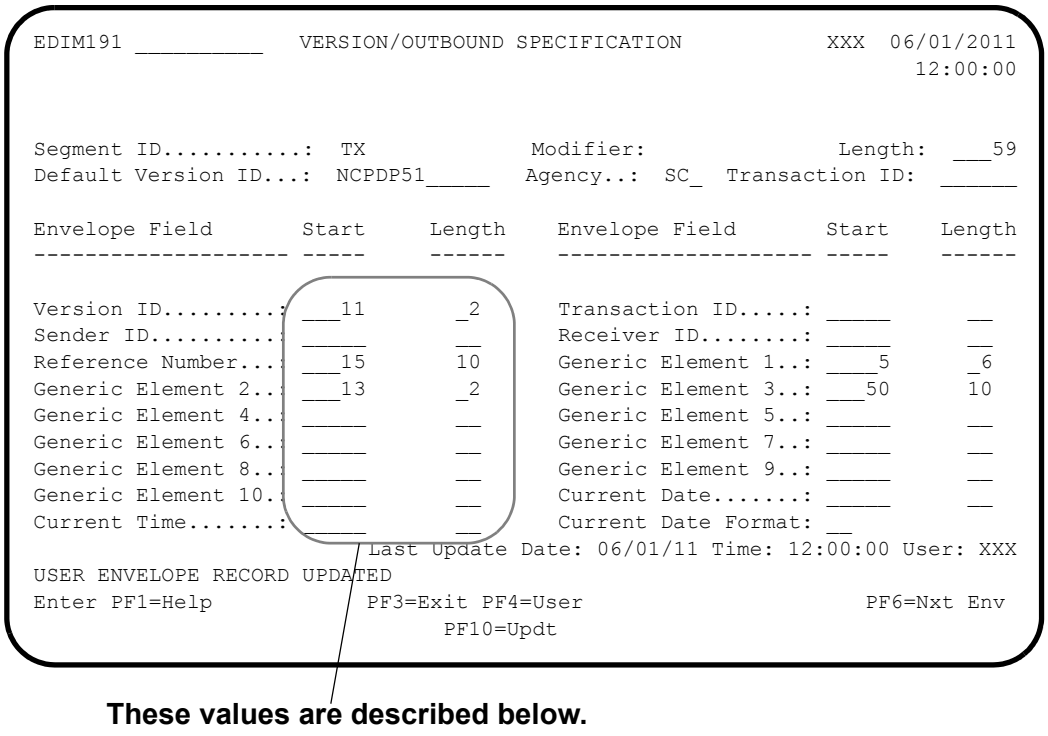
Note the following when reviewing this example:

- The segment length is 14; the length of the GX segment will always be 14.
- If you review the record layout for the GX segment in the following table, you will see that the following element will be populated on the GX segment.
  - Transaction Reference Number (Reference Number)

GX – Batch Transaction Detail Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Transaction Reference Number	AN	5	10

Example 3: TX Segment

The following diagram illustrates the Version/Outbound screen for the TX segment.



These values are described below.

Note the following when reviewing this example:

- The segment length is 59; the length of the TX segment will always be 59.
- If you review the record layout for the TX segment in the following table, you will see that the following elements will be populated on the TX segment.
  - Version release (version ID)
  - Control number (reference number)
  - BIN number (generic element 1)
  - Transaction code (generic element 2)
  - Vendor certification ID (generic element 3)

TX – Transaction Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
BIN Number	N	5	6
Version Release	AN	11	2
Control Number	AN	15	10
Service Provider ID Qualifier	AN	25	2
Service Provider ID	AN	27	15
Date of Service	N	42	8
Vendor Certification ID	AN	50	10

Example 4: RX Segment

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION          XXX  06/01/2011
                                                                  12:00:00


Segment ID...........:  RX             Modifier:               Length:  ___31
Default Version ID...:  ____________   Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........:____5       _2      Transaction ID.....: _____      __
Sender ID..........:_____       __      Receiver ID........: _____      __
Reference Number...:_____       __      Generic Element 1..: _____      __
Generic Element 2..:_____       __      Generic Element 3..: _____      __
Generic Element 4..:_____       __      Generic Element 5..: _____      __
Generic Element 6..:_____       __      Generic Element 7..: _____      __
Generic Element 8..:_____       __      Generic Element 9..: _____      __
Generic Element 10.:_____       __      Current Date.......: _____      __
Current Time.......:_____       __      Current Date Format: __
                          Last Update Date: 06/01/11 Time: 12:00:00 User: XXX
USER ENVELOPE RECORD UPDATED
Enter PF1=Help           PF3=Exit PF4=User                    PF6=Nxt Env
                               PF10=Updt
```

These values are described below.

Note the following when reviewing this example:

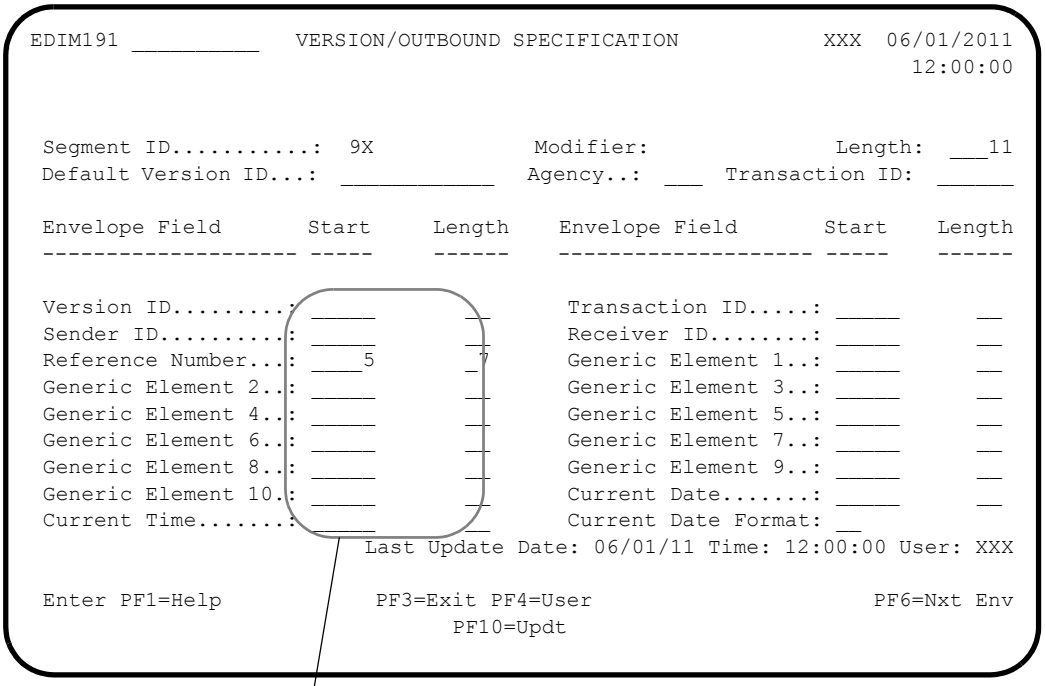
- The segment length is 31; the length of the RX segment will always be 31.

- If you review the record layout for the RX segment in the following table, you will see that the following element will be populated on the RX segment.
  - Version release (version ID)

RX – Response Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Version Release	AN	5	2
Service Provider ID Qualifier	AN	7	2
Service Provider ID	AN	9	15
Date of Service	N	24	8

Example 5: 9X Segment

The following diagram illustrates the Version/Outbound Specification screen for the 9X segment.



Note the following when reviewing this example:

- The segment length is 11; the length of the 9X segment will always be 11.

- If you review the record layout for the 9X segment in the following table, you will see that the Batch number (reference number) element will be populated on the 9X segment.

9X – Batch Transaction Trailer Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Batch Number	N	5	7

Setting Up Partner Profiles

Partner Profile set-up is different for sending outbound NCPDP data depending on whether you have defined user envelopes in the User Envelope file for outbound processing.

See the "Defining User Envelopes" section previously in this appendix for more information about user envelopes.

If you are mapping all fields of the envelopes (00,G1, TH, RH, 99) from your application (if you are not using the X envelopes), you must **NOT** define any outbound envelope IDs at the control (interchange), group or transaction levels on your partner profile. The following three diagrams illustrate an example of how to set up a partner that will not be using the X envelopes.

Note: On these screens, the value in the Envelope field must be spaces. If you enter a value other than spaces, the system attempts to generate envelopes.

```
EDIM011 __________          CONTROL INFORMATION             XXX   06/01/2011
                                                                   12:00:00


           NCPDP PARTNER WITHOUT USER ENVELOPE
  Part ID: RAENCPDPWO                                Qual:
Multiple Envelope Id:
Outbound envelope information for Generic Interchange:

Envelope ID...:  ___                Modifier......:  _
Sender ID.....:  _______________
Receiver ID...:  _______________
Version ID....:  ____________
Transaction ID:  ______
Reference.....:  ____________________
Gen Element 1.:  ____________________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________   Gen Element 8.:  ____________________
Gen Element 9.:  ____________________   Gen Element 10:  ____________________

Enter PF1=Help            PF3=Exit PF4=Ctrl       PF5=GDir
                                PF10=Updt     PF14=Info
```

```
EDIM034 1.2.2_____          GROUP INFORMATION               XXX   06/01/2011
                                                                   12:00:00


           NCPDP PARTNER WITHOUT USER ENVELOPE
 Part ID:  RAENCPDPWO                               Qual:
Group ID:  B1Q___        Multiple Env Id:

Outbound envelope information for Generic Group:

Envelope ID...:  ___                Modifier......:  _
Sender ID.....:  _______________
Receiver ID...:  _______________
Version ID....:  NCPDP51_____
Transaction ID:  B1Q___             Reference.....:  ____________________
Gen Element 1.:  ____________________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________


Enter PF1=Help            PF3=Exit PF4=Ctrl       PF5=TDir       PF6=Next Grp
                       PF9=Add PF10=Updt PF11=Del         PF14=Info
```

```
EDIM044 1.2.3_____        TRANSACTION INFORMATION           XXX   06/01/2011
                                                                  12:00:00


          NCPDP PARTNER WITHOUT USER ENVELOPE
Part ID:  RAENCPDPWO                              Qual:
Transaction ID:  B1Q___   Multiple Env Id:

Translation Map ID Inbound..:  __________     Outbound:  __________
Application Databank Inbound:  D  (F/D/N)     Outbound:  D  (F/D/N)

Outbound envelope information for Generic Transaction:
  Envelope ID..:  ___                 Modifier......:  _
  Sender ID....:  _______________     Receiver ID...:  _______________
  Version ID...:  NCPDP51_____        Reference.....:  ____________________
  Gen Element 1:  ____________________ Gen Element 2.:  ____________________
  Gen Element 3:  ____________________ Gen Element 4.:  _______________
  Gen Element 5:  _______________



Enter PF1=Help            PF3=Exit PF4=Group      PF5=Name       PF6=Nxt Tran
                       PF9=Add PF10=Updt PF11=Del          PF14=Info
```

If you plan to pull information from the partner profile to by using the X envelopes, you must define the outbound envelope IDs at the control (interchange), group and transaction levels on the partner profile. Enter the 0X envelope at the control (interchange) level, the GX envelope at the group level, the TX envelope at the transaction level for request transactions, and the RX envelope at the transaction level for the response transaction.

The following diagrams illustrate an example of a partner that will be building the X envelopes to pull information from the partner profile.

Note: The outbound Envelope ID must be 0X on the following screen.

```
EDIM011 __________          CONTROL INFORMATION              XXX   06/01/2011
                                                                    12:00:00


          NCPDP PARTNER WITH USER ENVELOPES
  Part ID: RAENCPDPW                                Qual:
Multiple Envelope Id:
Outbound envelope information for Generic Interchange:

Envelope ID...:  0X_                Modifier......:  _
Sender ID.....:  TESTSENDER_____
Receiver ID...:  TESTRECEIVER___
Version ID....:  11__________
Transaction ID:  ______
Reference.....:  000000000000000012
Gen Element 1.:  T___________________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________   Gen Element 8.:  ____________________
Gen Element 9.:  ____________________   Gen Element 10:  ____________________

Enter PF1=Help            PF3=Exit PF4=Ctrl       PF5=GDir
                                PF10=Updt    PF14=Info
```

Note: The outbound Envelope ID must be GX on the following screen.

```
EDIM034 1.2.2_____          GROUP INFORMATION              XXX   06/01/2011
                                                                    12:00:00


          NCPDP PARTNER WITH USER ENVELOPES
 Part ID:  RAENCPDPW                                Qual:
Group ID:  B1Q___        Multiple Env Id:

Outbound envelope information for Generic Group:

Envelope ID...:  GX_                Modifier......:  _
Sender ID.....:  ________________
Receiver ID...:  ________________
Version ID....:  NCPDP51_____
Transaction ID:  B1Q___             Reference.....:  000000000000000012
Gen Element 1.:  ____________________   Gen Element 2.:  ____________________
Gen Element 3.:  ____________________   Gen Element 4.:  ____________________
Gen Element 5.:  ____________________   Gen Element 6.:  ____________________
Gen Element 7.:  ____________________


Enter PF1=Help            PF3=Exit PF4=Ctrl       PF5=TDir       PF6=Next Grp
                       PF9=Add PF10=Updt PF11=Del         PF14=Info
```

Note: The outbound Envelope ID must be TX or RX on the following screen.

```
EDIM044 1.2.3_____        TRANSACTION INFORMATION           XXX   06/01/2011
                                                                  12:00:00


          NCPDP PARTNER WITH USER ENVELOPES
Part ID:  RAENCPDPW                              Qual:
Transaction ID:  B1Q___   Multiple Env Id:

Translation Map ID Inbound..:  __________     Outbound:  NCPDPB1QE_
Application Databank Inbound:  D  (F/D/N)     Outbound:  D  (F/D/N)

Outbound envelope information for Generic Transaction:
  Envelope ID..:  TX_               Modifier......:  _
  Sender ID....:  _______________   Receiver ID...:  _______________
  Version ID...:  51__________      Reference.....:  000000000000000012
  Gen Element 1:  606BIN_____________  Gen Element 2.:  B1_________________
  Gen Element 3:  3333333333_________  Gen Element 4.:  _______________
  Gen Element 5:  _______________



Enter PF1=Help            PF3=Exit PF4=Group      PF5=Name       PF6=Nxt Tran
                       PF9=Add PF10=Updt PF11=Del           PF14=Info
```

Preparing to Run Outbound Processing

Preparations for Sterling Gentran:Basic

Note: If you are not using Sterling Gentran:Basic, skip this section and proceed to the next section, Preparations for Sterling Gentran:Realtime.

Once you have set up your application definition, transaction map, user envelopes (optional), and partner profile, you are ready to run your outbound flow. This involves two Sterling Gentran:Basic/Structure programs, the Outbound Mapper (EBDI042) and the Outbound NCPDP Reformat program (NCPDP51O).

Specific parameters are required to run the NCPDP data through the Outbound Mapper.

See Chapter 4, “Program Descriptions,” for detailed information about the program.

Record #1 of the SYS001 parameter file

Field	Start Position	End Position	Value	Notes
Standard Type	46	46	V	Variable length SYS098 output file.
Maximum Length	47	51	05100	The SYS098 output file maximum record length.

Record #2 of the SYS001 parameter file

Field	Start Position	End Position	Value	Notes
Envelope Generation Suppression Switch	80	80	<space>	Instructs the Outbound Mapper to generate envelopes. This field must contain a space value whether or not you use the X envelopes.

Record #4 of the SYS001 parameter file

Field	Start Position	End Position	Value	Notes
Group Envelope Always Switch	8	8	Y	Instructs the Outbound Mapper to generate a group level envelope (GX) whenever a transaction level envelope (TX or RX) is generated. This field must be set to Y only if the X envelopes are in use.

Following the Outbound Mapper (EBDI042), you must run the NCPDP51O program. This program reformats the output of the Mapper into true NCPDP format. The NCPDP51O program:

- Suppresses leading zeros in numeric fields.
- Removes trailing spaces from alphanumeric fields.
- Places text indicators, field separators, and group separators in the appropriate locations.
- Compresses data and wraps it according to the provided parameters.

See Chapter 4, “Program Descriptions,” for the detailed program description information.

Preparations for Sterling Gentran:Realtime

Once you have set up your application definition, transaction map, user envelopes (optional), and partner profile, you are ready to run your outbound flow through Sterling Gentran:Realtime. You must set up a Shell Path to execute the Outbound Mapper (EDIR042) and the Outbound NCPDP Post-Processing program (EDIRNCPO).

See the *IBM® Sterling Gentran:Realtime® for z/OS® Release 6.6 User Guide* for information about the screens used to set up a shell path.

Specific parameters are required to run the NCPDP data through the Outbound Mapper.

You must enter the following parameter into the Outbound Mapper-2 Path Maintenance screen (EDIM841).

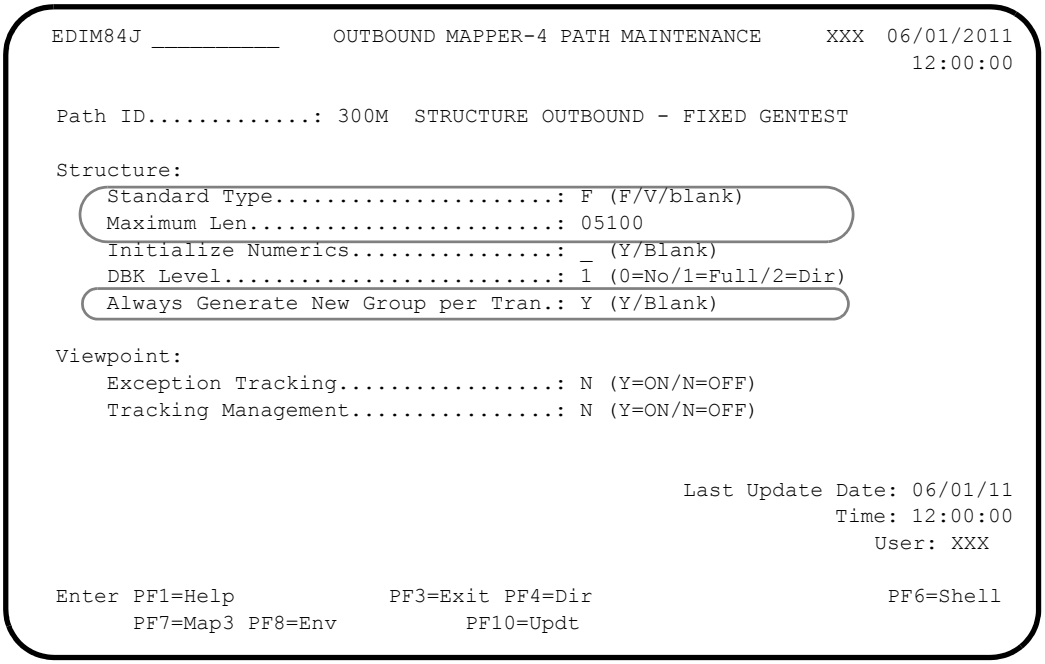
Field	Value	Notes
Envelope GEN Switch	N	Generate envelopes

See Chapter 5, “Sterling Gentran:Realtime Program Descriptions,” for detailed information about the program.

```
EDIM84I _________     OUTBOUND MAPPER-2 PATH MAINTENANCE     XXX  06/01/2011
                                                                  12:00:00

 Path ID.............: 300M  STRUCTURE OUTBOUND - FIXED GENTEST

 Document Tracking..........:  _   (1=Print Error Audit/2=Print Audit for all)
 Support Quote Switch.......:  _    (Y/Blank)
 Map blank Subfield.........:  _    (Y/N)
 CNTL Pass Thru ind.........:  _    (Y/I/Blank)
 Application Reference Load.:  _    (0/1/Blank)
 Envelope GEN Switch........:  N    (Y=CNTLrecs/N=Env)
 Interchange Version OFF....:  _    (Y/Blank)
 Group Version OFF..........:  _    (Y/Blank)
 Trans Version OFF..........:  _    (Y/Blank)
 Multi Env enable Override..:  _    (Y/Blank)
 Multiple Envelope id.......:  ___
 Default Interchange Ver....:  ____________
                                          Last Update Date: 06/01/11
                                                      Time: 12:00:00
                                                         User: XXX

 Enter PF1=Help            PF3=Exit PF4=Dir                      PF6=Shell
       PF7=Map1 PF8=Map3         PF10=Updt PF11=Del
```

You must enter the following parameters into the Outbound Mapper-4 Path Maintenance screen (EDIM84J).

Field	Value	Notes
Standard Type	F	Fixed Format standard
Maximum Len	05100	Maximum record length
Always Generate New Group per Tran	Y	Generate group envelope for each transaction



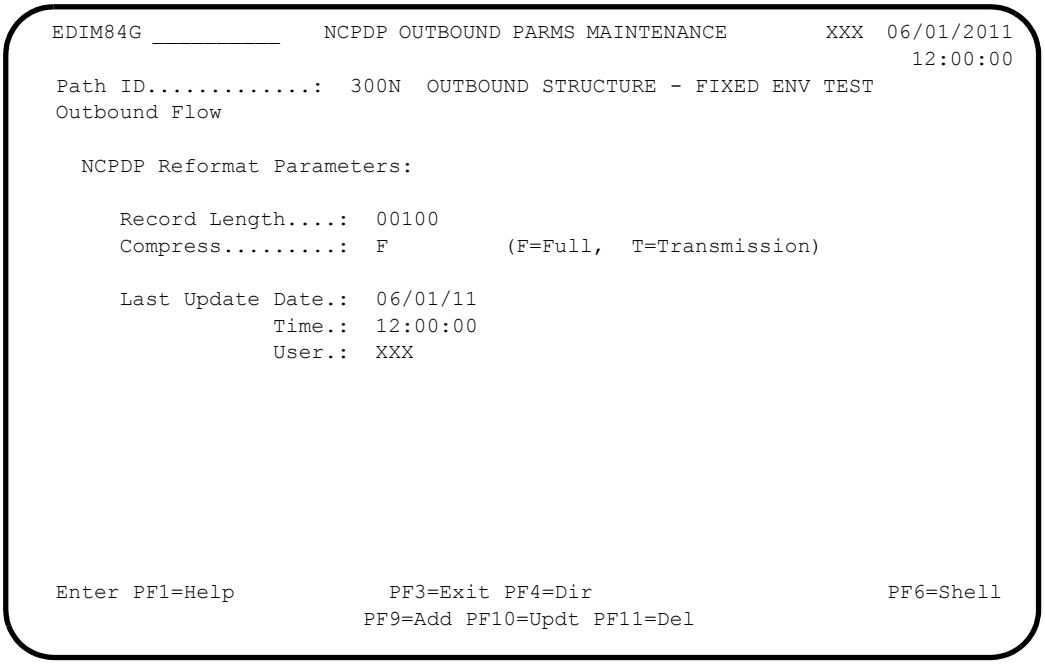
Following the Outbound Mapper (EDIR042), the Outbound Post-Processor (EDIRNCPO) executes. This program reformats the output of the Mapper into true NCPDP format. The EDIRNCPO program:

- Suppresses leading zeros in numeric fields.
- Removes trailing spaces from alphanumeric fields.
- Places text indicators, field separators, and group separators in the appropriate locations.
- Compresses data and wraps it according to the provided parameters.

See Chapter 5, “Sterling Gentran:Realtime Program Descriptions,” for detailed information about the program.

You must enter the following parameters into the NCPDP Outbound Parms Maintenance screen (EDIM84G). The values shown here are examples. The specific values you enter will differ according to your business requirements.

Field	Value	Notes
Record Length		The maximum record length for compressed and wrapped NCPDP records.
Compress		Compression Level


EDIM84G _____ NCPDP OUTBOUND PARMS MAINTENANCE XXX 06/01/2011
12:00:00
Path ID.....: 300N OUTBOUND STRUCTURE - FIXED ENV TEST
Outbound Flow
NCPDP Reformat Parameters:
Record Length....: 00100
Compress.....: F (F=Full, T=Transmission)
Last Update Date.: 06/01/11
Time.: 12:00:00
User.: XXX
Enter PF1=Help PF3=Exit PF4=Dir PF6=Shell
PF9=Add PF10=Updt PF11=Del

Processing Inbound NCPDP Data

This section describes inbound system flow for translating data into batch NCPDP version 5 release 1 data.

Before Sterling Gentran:Structure can process NCPDP data, the data must be translated into a fixed-format composition defined in the standards files. For inbound processing, Sterling Gentran:Structure reformats incoming data into a Sterling Gentran-specified fixed format structure that can be processed through Sterling Gentran:Structure and ultimately be translated to your application data.

> **Note:** See the Sterling Gentran online standards files under version NCPDP51, agency SC, for the layout of the Sterling Gentran fixed format structure for NCPDP data.

Processing inbound NCPDP data through Sterling Gentran:Structure requires extra set-up in addition to normal Sterling Gentran procedures. You must complete the following tasks according to the information provided in the next section of this chapter:

- Define and build your application definition.
- Define and build your transaction map.
- Define user envelopes.
- Set up your partner profile.
- Prepare to run the inbound process.

Figure B.2 illustrates the system flow that you will use to translate your incoming batch NCPDP version 5 release 1data into your application data. The requirements for the above tasks can be found following the diagram.

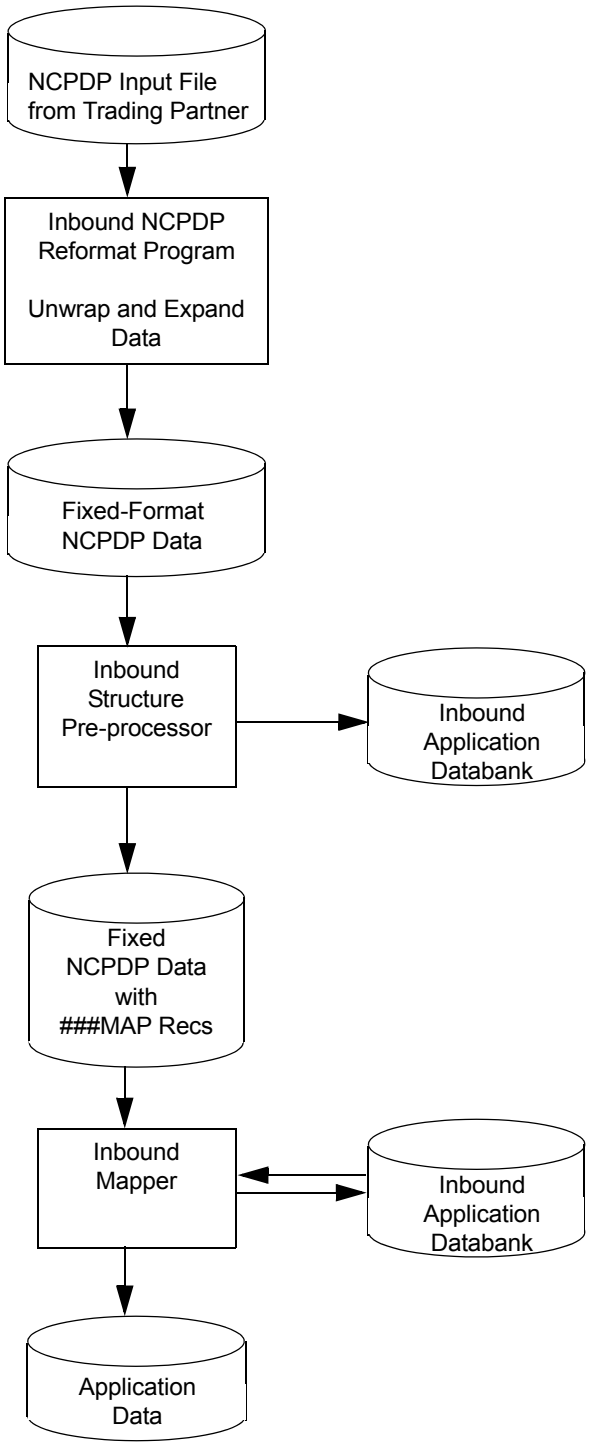


Figure B.2 System Flow – Translating Batch NCPDP Data into Application Data

Define and Build your Application Definition

You use the online mapping subsystem to enter your application definition.

On the Application Data ID screen (EDIM552), the value in the functional group field must match the NCPDP51 transaction ID to which this application data will be translated. The following diagram illustrates the screen.

```
EDIM552 5.1.2_____        APPLICATION DATA ID                XXX  06/01/2011
                                                                    12:00:00


    Application Data ID.......:  RAENCPDP2_   Send or Receive:  R
    Division Code.............:  000
    Description...............:  NCPDP_APPLICATION_DEFINITION__
    Functional Group..........:  B1Q__   ______   ______
                                 ______   ______
    Fixed or Variable Length..:  F   (F/V)
    Record Length.............:  00255
    Record Type Start Pos.....:  00001          Length.......:  03
    Inbound Pass-Thru.........:  _
    Underscore Character......:  _
    Update Allowed............:  Y

    Last Update User..........:  XXX            Date.........:  06/01/11
                                                Time.........:  12:00:00



Enter PF1=Help PF2=Copy   PF3=Exit PF4=Dir        PF5=Records    PF6=Refer
                       PF9=Add PF10=Updt PF11=Del PF12=NuMap PF13=Envel
```

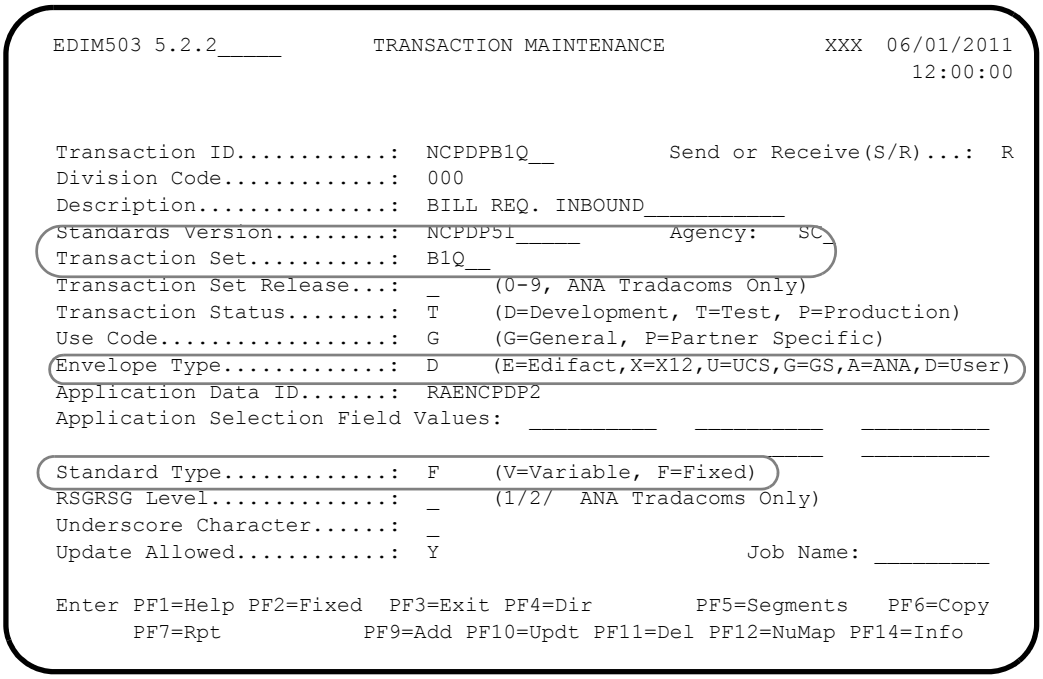
Define and Build your Transaction Map

You use two initial screens to add a new Sterling Gentran:Structure map using the online mapping subsystem.

Set up the first screen, the Transaction Maintenance screen (EDIM503), with the following information:

In This Field...	Enter This Value
Standards Version	NCPDP51
Agency	SC
Transaction Set	(A transaction ID found in version NCPDP51)
Envelope Type	D (this indicates that this is a user-defined standard)
Standard Type	F (indicates a fixed-format standard)

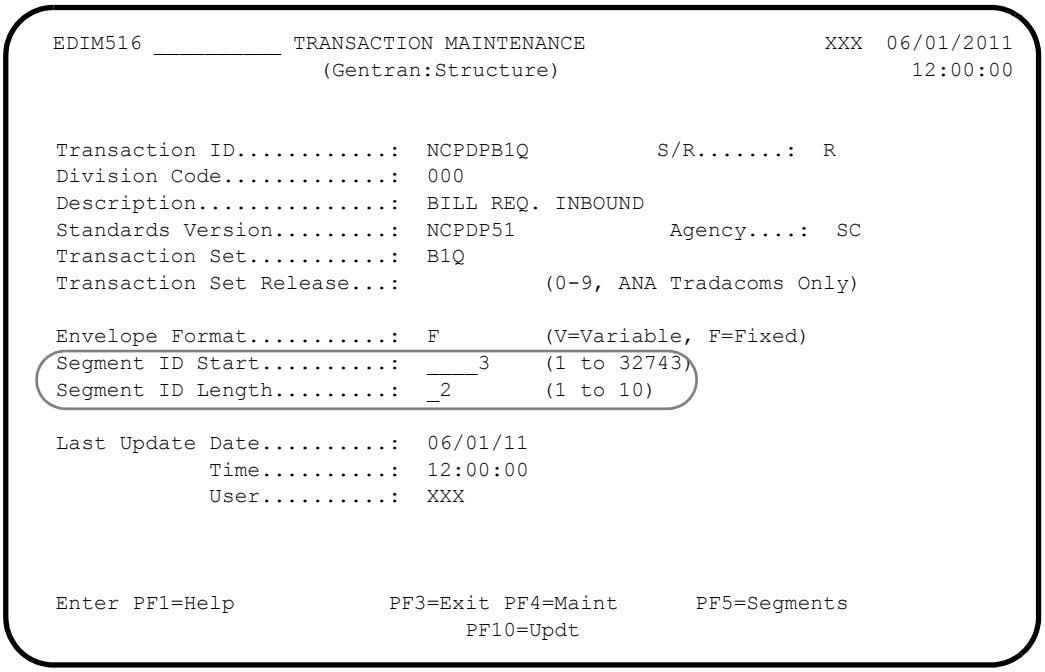
The following diagram illustrates the screen.



When you press **PF9=Add** to add the new map, the system displays the Transaction Maintenance – Sterling Gentran:Structure screen (EDIM516). Enter the following information on this screen:

In This Field...	Enter This Value
Segment ID Start	3
Segment ID Length	2

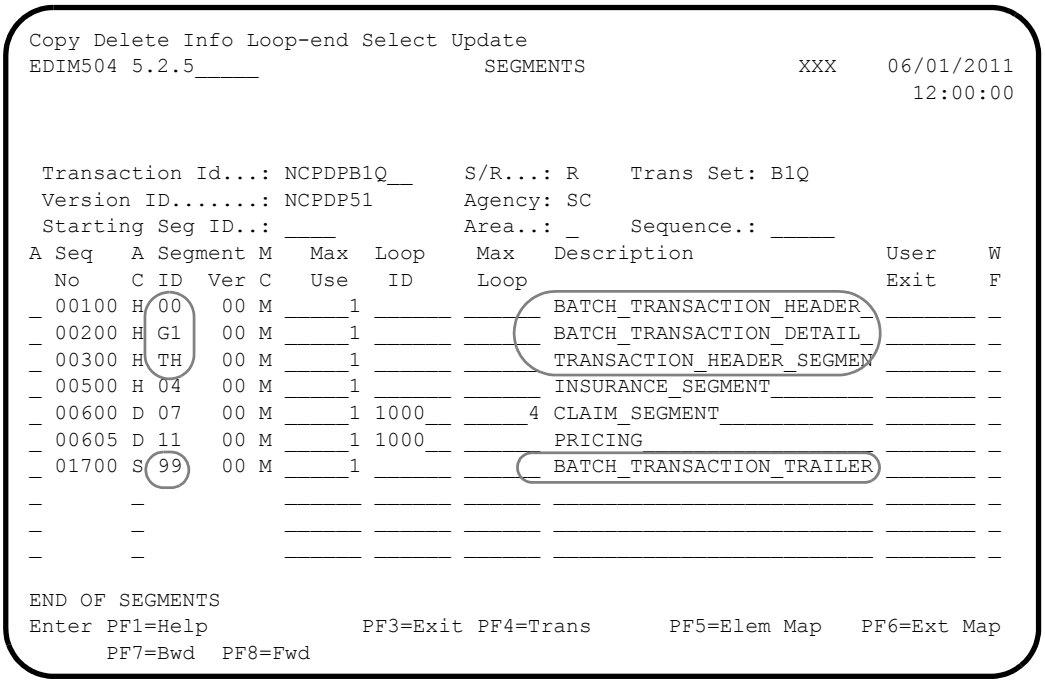
The following diagram illustrates the screen.



Once the transaction map definition is complete, copy the desired segments for the transaction you will be processing from the NCPDP51 version and map the data as you would with any other Sterling Gentran map.

Because the envelope segments (00, G1, TH, RH, 99) are a part of the Sterling Gentran transaction, you can map fields from the envelope segments to your application just as you would for any other segment.

The following diagram illustrates the concept.



Defining User Envelopes

The Sterling Gentran:Structure Inbound Pre-processor (EBDI083) requires certain information about the envelope segments that appear in the incoming NCPDP data be available to Sterling Gentran so that it will recognize them as envelopes. These envelopes provide trading partner, version and transaction ID information.

User envelopes in the Sterling Gentran:Structure User Envelope file provide EBDI083 with required information about the envelope segments. Because the data sent to EBDI083 is in the Sterling Gentran NCPDP51 fixed-format structure, you must define the header envelope segments that will be presented to EBDI083 (00, G1, TH and RH) in the User Envelope file. There is no need to define the transaction definition trailer (99) segment as a user envelope.

00 – Batch Transaction Header Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Transmission Type	AN	5	1
Sender ID	AN	6	24
Batch Number	N	30	7
Creation Date	N	37	8
Creation Time	N	45	4
File Type	AN	49	1

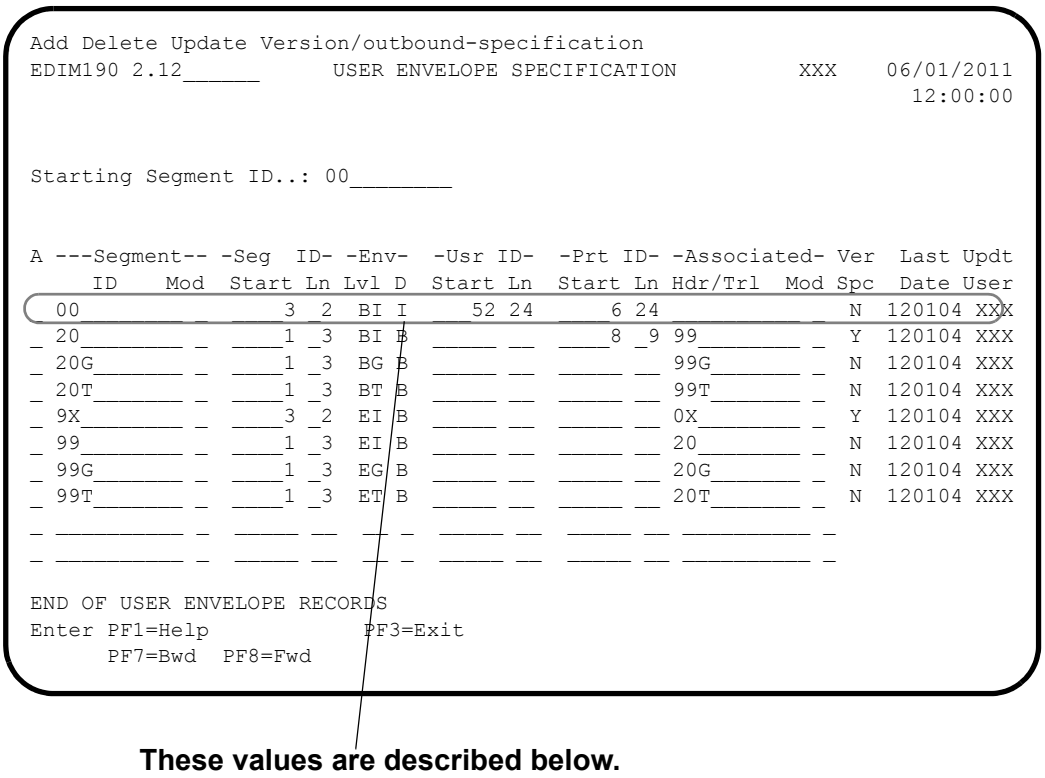
Version Release	AN	50	2
Receiver ID	AN	52	24
G1 – Batch Transaction Detail Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Transaction Reference Number	AN	5	10
TH – Transaction Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
BIN Number	N	5	6
Version Release	AN	11	2
Transaction Code	AN	13	2
Control Number	AN	15	10
Transaction Count	AN	25	1
Service Provider ID Qualifier	AN	26	2
Service Provider ID	AN	28	15
Date of Service	N	43	8
Vendor Certification ID	AN	51	10
Sterling Gentran Transaction ID	AN	61	3
Sterling Gentran Version	AN	64	12
Sterling Gentran Agency	AN	71	2
RH – Response Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Version Release	AN	5	2
Transaction Code	AN	7	2

Transaction Count	AN	9	1
Header Status	AN	10	1
Service Provider ID Qualifier	AN	11	2
Service Provider ID	AN	13	15
Date of Service	N	28	8
Sterling Gentran Transaction ID	AN	36	3
Sterling Gentran Version	AN	39	12
Sterling Gentran Agency	AN	46	2

Transaction Header Definition Segment (00)

The transaction header definition segment (00) provides the trading partner (sender and receiver) information to EBDI083. When defining the 00 segment as an envelope in the User Envelope file, you must provide information indicating where in the 00 segment the trading partner information can be found.

The following diagram illustrates the User Envelope Specification screen for the 00 segment.



Refer to the following information when you define the 00 segment in User Envelope file:

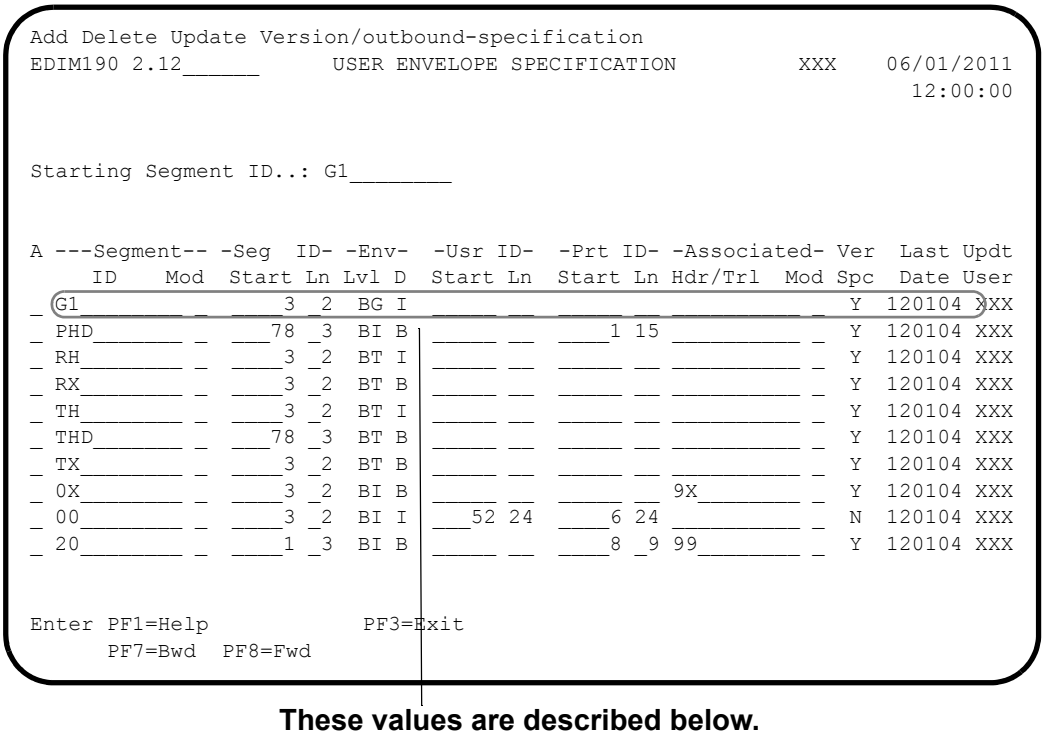
- The Segment ID Starting Position must have a value of 3.
- The Segment ID Length must have a value of 2.
- The 00 segment must be set up as a beginning interchange (BI) level envelope because it is the highest level of envelope present in the data.
- Because the 00 segment will only be used as an envelope for inbound processing, the Envelope Direction field should be set to I for inbound.
- For inbound data, the User ID Start and Length fields refer to the receiver ID. On the 00 segment, the receiver ID is located in position 52 for a length of 24.
- For inbound data, the Partner ID Start and Length fields refer to the sender ID. On the 00 segment, the sender ID is located in position 6 for a length of 24.

00 – Batch Transaction Header Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Transmission Type	AN	5	1
Sender ID	AN	6	24
Batch Number	N	30	7
Creation Date	N	37	8
Creation Time	N	45	4
File Type	AN	49	1
Version Release	AN	50	2
Receiver ID	AN	52	24

Transaction Detail Definition Segment (G1)

Even though the transaction detail definition (G1) segment does not provide trading partner, version or transaction ID information, you must define it as a user envelope.

The following diagram illustrates the User Envelope Specification screen for the G1 segment.



Note the following when defining the G1 segment in the User Envelope file:

- The Segment ID Starting Position must have a value of 3.
- The Segment ID Length must have a value of 2.
- You must set up the G1 segment as a beginning group (BG) level envelope even though, in the NCPDP definition, it is truly a transaction level envelope. This is because we can not define two transaction level envelopes for the same document, and the TH and RH envelopes are the lowest level envelopes received in the data. Therefore, they must be defined as beginning transaction envelopes.
- Because the G1 segment will only be used as an envelope for inbound processing, set the envelope direction field should to I for inbound.

G1 – Batch Transaction Detail Definition User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Transaction Reference Number	AN	5	10

Databanking Feature (Optional)

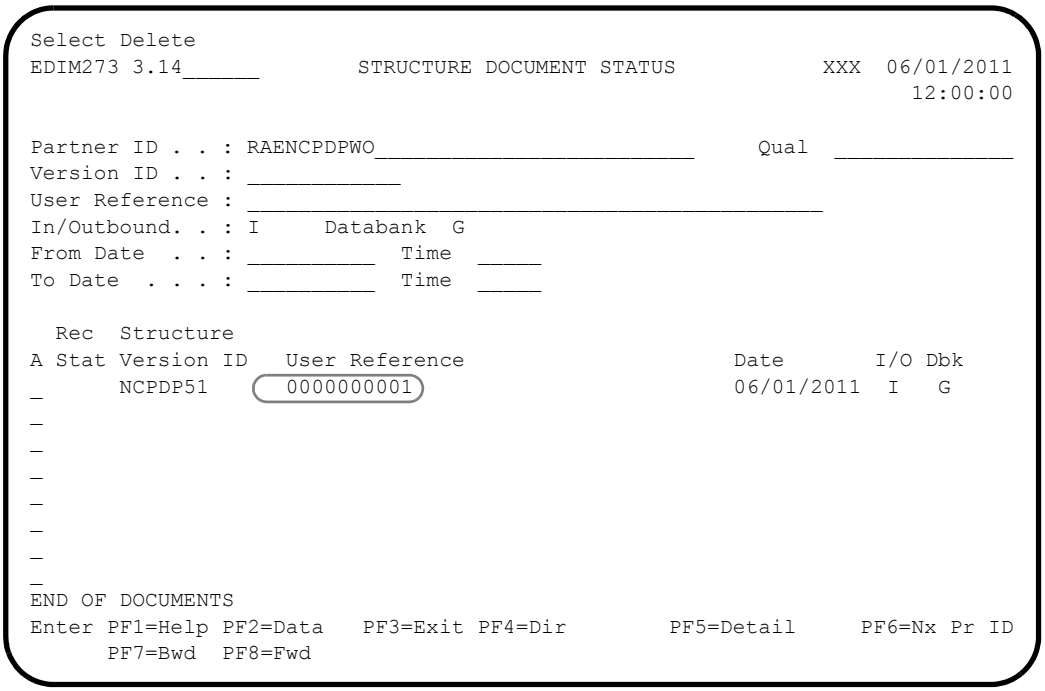
If you are going to use the Sterling Gentran Databanking feature for your inbound NCPDP data, you may want to use the transaction reference number found on the G1 segment as the reference number on the databank directory file.

When you fill in the Reference Number field on the Version/Outbound Specification screen, EBDI083 pulls the transaction reference number from the G1 segment and uses it as the reference number for that document on the databank directory file. The transaction reference number on the G1 segment starts in position 5 and has a length of 10.

The following diagram illustrates the screen.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION          XXX  06/01/2011
                                                                    12:00:00


Segment ID...........:  G1             Modifier:               Length:  ___14
Default Version ID...:  NCPDP51_____   Agency..:  SC_  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: _____       __      Transaction ID.....: _____      __
Sender ID..........: _____       __      Receiver ID........: _____      __
Reference Number...: ____5       10      Generic Element 1..: _____      __
Generic Element 2..: _____       __      Generic Element 3..: _____      __
Generic Element 4..: _____       __      Generic Element 5..: _____      __
Generic Element 6..: _____       __      Generic Element 7..: _____      __
Generic Element 8..: _____       __      Generic Element 9..: _____      __
Generic Element 10.: _____       __      Current Date.......: _____      __
Current Time.......: _____       __      Current Date Format: __
                          Last Update Date: 06/01/11 Time: 12:00:00 User: XXX

Enter PF1=Help            PF3=Exit PF4=User                    PF6=Nxt Env
                                PF10=Updt
```

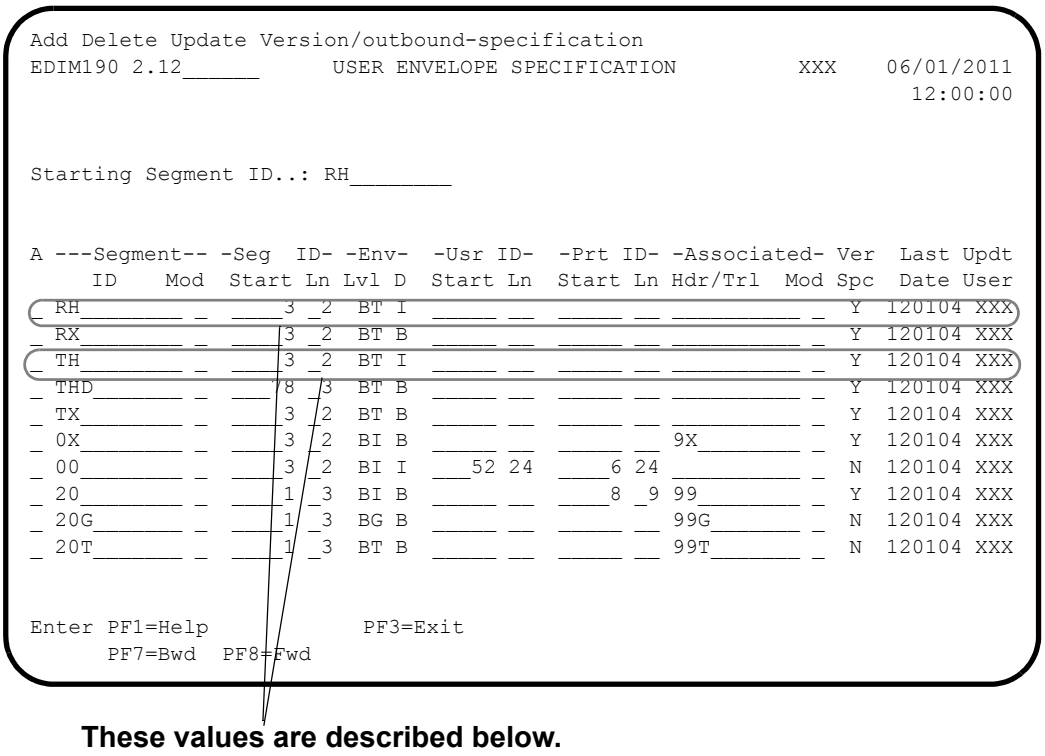
The following diagram illustrates an example of the User Reference on the databank being pulled from the Transaction Reference number on the G1 segment.



Transaction Header (TH) and Response Header (RH) Segments

The transaction header (TH) and response header (RH) segments provide the version and transaction ID information to EBDI083.

The following diagram illustrates the User Envelope Specification screen for the RH segment.



Note the following requirements when you define the TH and RH segments in User Envelope file:

- The Segment ID Starting Position must have a value of 3.
- The Segment ID Length must have a value of 2.
- The TH and RH segments must be set up as beginning transaction (BT) level envelopes because they are the lowest level of envelope present in the data.
- Because the TH and RH segments will only be used as an envelope for inbound processing, set the envelope direction field to I for inbound. Because the User Envelope Specification screen does not have version and transaction ID information, you must use the Version/Outbound Specification screen to provide the version and transaction ID information to EBDI083.

The following diagrams illustrate the Version/Outbound Specification screen for the RH and TH segments.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION          XXX  06/01/2011
                                                                   12:00:00


Segment ID...........: RH            Modifier:              Length:  ___53
Default Version ID...:  ____________  Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: ___39       12      Transaction ID.....: ___36       _3
Sender ID..........: _____       __      Receiver ID........: _____       __
Reference Number...: _____       __      Generic Element 1..: _____       __
Generic Element 2..: _____       __      Generic Element 3..: _____       __
Generic Element 4..: _____       __      Generic Element 5..: _____       __
Generic Element 6..: _____       __      Generic Element 7..: _____       __
Generic Element 8..: _____       __      Generic Element 9..: _____       __
Generic Element 10.: _____       __      Current Date.......: _____       __
Current Time.......: _____       __      Current Date Format: __
                        Last Update Date: 06/01/11 Time: 12:00:00 User: XXX

Enter PF1=Help           PF3=Exit PF4=User                    PF6=Nxt Env
                               PF10=Updt
```

These values are described below.

```
EDIM191 __________   VERSION/OUTBOUND SPECIFICATION          XXX  06/01/2011
                                                                   12:00:00


Segment ID...........: TH            Modifier:              Length:  ___78
Default Version ID...:  ____________  Agency..:  ___  Transaction ID:  ______

Envelope Field       Start     Length    Envelope Field       Start    Length
-------------------- -----     ------    -------------------- -----    ------

Version ID.........: ___64       12      Transaction ID.....: ___61       _3
Sender ID..........: _____       __      Receiver ID........: _____       __
Reference Number...: _____       __      Generic Element 1..: _____       __
Generic Element 2..: _____       __      Generic Element 3..: _____       __
Generic Element 4..: _____       __      Generic Element 5..: _____       __
Generic Element 6..: _____       __      Generic Element 7..: _____       __
Generic Element 8..: _____       __      Generic Element 9..: _____       __
Generic Element 10.: _____       __      Current Date.......: _____       __
Current Time.......: _____       __      Current Date Format: __
                        Last Update Date: 06/01/11 Time: 12:00:00 User: XXX

Enter PF1=Help           PF3=Exit PF4=User                    PF6=Nxt Env
                               PF10=Updt
```

These values are described below.

Note the following when defining the version and transaction information for the RH and TH segments:

- The version ID to be used is the Sterling Gentran version ID (NCPDP51), which will be found in position 39 of the RH record and position 64 of the TH record. EBDI083 requires the actual version ID on the Sterling Gentran standards files that will be used to process the data.
- The transaction ID to be used is the Sterling Gentran NCPDP51 transaction ID (e.g. R1, B1Q, E1Q), which will be found in position 36 of the RH segment and position 61 of the TH segment. EBDI083 needs to know the actual Sterling Gentran transaction ID being used to process the data.

RH – Response Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
Version Release	AN	5	2
Transaction Code	AN	7	2
Transaction Count	AN	9	1
Header Status	AN	10	1
Service Provider ID Qualifier	AN	11	2
Service Provider ID	AN	13	15
Date of Service	N	28	8
Sterling Gentran Transaction ID	AN	36	3
Sterling Gentran Version	AN	39	12
Sterling Gentran Agency	AN	46	2

TH – Transaction Header Segment User Envelope			
Field Description	**Format**	**Starting Position**	**Length**
Filler	AN	1	2
Segment ID	AN	3	2
BIN Number	N	5	6
Version Release	AN	11	2

Transaction Code	AN	13	2
Control Number	AN	15	10
Transaction Count	AN	25	1
Service Provider ID Qualifier	AN	26	2
Service Provider ID	AN	28	15
TH – Transaction Header Segment User Envelope			
Date of Service	N	43	8
Vendor Certification ID	AN	51	10
Sterling Gentran Transaction ID	AN	61	3
Sterling Gentran Version	AN	64	12
Sterling Gentran Agency	AN	71	2

Setting Up Your Partner Profile

Entering an NCPDP partner for inbound processing has no special requirements.

See the Sterling Gentran:Structure Tutorial for more information on entering Sterling Gentran:Structure partner information.

Preparing to Run Inbound Processing

Preparations for Sterling Gentran:Basic for z/OS

Note: If you are not using Sterling Gentran:Basic, skip this section and proceed to the next section, “Preparations for Sterling Gentran:Realtime.”

Once you have set up your application definition, transaction map, user envelopes, and partner profile, you are ready to run your inbound flow. This involves two Sterling Gentran:Structure programs, the Inbound NCPDP Reformat Program (NCPDP51I) and the Inbound Sterling Gentran:Structure Pre-Processor (EBDI083).

First you must run the NCPDP51I program. This program reformats the inbound NCPDP data into the Sterling Gentran format of NCPDP data. Parameters provide the record length and format of the input.

Following NCPDP51I, you must run EBDI083. Specific parameters are required to run the NCPDP data through the Sterling Gentran:Structure Pre-processor.

Following the EBDI083 program, you must run the Inbound Mapper (EBDI041) to translate NCPDP data into your application data.

See Chapter 4, “Program Descriptions,” for detailed program descriptions for the Inbound Mapper for Sterling Gentran:Structure, the Inbound NCPDP Reformat Program (NCPDP51I), and the Inbound Sterling Gentran:Structure Pre-Processor (EBDI083).

Setting up Parameters for Running the Sterling Gentran:Structure Pre-Processor (EBDI083)

You must use the following parameters when processing NCPDP data \through EBDI083.

Parameter	Comments
RECORD FORMAT VARIABLE	The output file created by EBDI083 for NCPDP51 data will have variable record lengths.
RECORD LENGTH 05100	The maximum record length of the records is 5100 bytes.
ENVELOPE LEVEL INTERCHANGE	Since the 00 segment is set up as a beginning interchange (BI) envelope in the User Envelope file, you must instruct EBDI083 that interchange level envelopes are present in the data.
DATA ENVELOPE YES	You need EBDI083 to write the envelope (00,G1, TH and RH) segments out as true data segments. This will allow you to map all fields from these segments to your application file when the data is translated in the Inbound Mapper (EBDI041).

Preparations for Sterling Gentran:Realtime

Once you have set up your application definition, transaction map, user envelopes, and partner profile, you are ready to run your inbound flow through Sterling Gentran:Realtime.

You must set up a shell path to execute the Inbound NCPDP Pre-Processor (EDIRNCPI), the Inbound Sterling Gentran:Structure Pre-Processor (EDIR083) and the Inbound Mapper (EDIR041).

See the *IBM® Sterling Gentran:Realtime® for z/OS® Release 6.6 User Guide* for information about the screens used to set up a shell path.

Specific parameters are required to run the NCPDP data through the Inbound Sterling Gentran:Structure PreProcessor.

You must enter the following parameters on the Fixed Format Pre-Processor Path Maintenance screen (EDIM840).

Field	Value	Notes
Record Format	1	Records are variable length
Record Length	05100	Maximum record length for NCPDP records
Envelope Level	2	Interchange level envelopes
Data Envelope	Y	Write envelopes as data segments

See Chapter 5, “Sterling Gentran:Realtime Program Descriptions,” for detailed information about the program.

```
EDIM840 __________   FIXED FORMAT PRE-PROCESSOR PATH MAINTENANCE   XXX  06/01/2011
                                                                        12:00:00


Path ID.....................:  352P   STRUCTURE_INBOUND_PRE-PROCESSOR______
Record Format...............  1         0 = Fixed 1 = Variable
Record Length...............  05100     Max of 32760
Partner ID / Qual...........  ________________________________________ / ____
User ID / Qual..............  ________________________________________ / ____
Version ID..................  _____________  Agency..:  ___
Transaction ID..............  ________
Envelope Level..............  2       0 = Trans 1 = Group 2 = Interchange
Application By..............  0       0 = None  1 = User  2 = Partner
User Reference Segment ID...  _______________
Segment ID Starting Position.  ____
Segment ID Length...........  __    Dbk Proc. Level...: 1  0=No, 1=Full
User Reference Starting Pos.  ____                          2=Dir
User Reference Length.......  __    Report Print Sw...: 0  0=No 1=Print
Detail Report...............  _     0=No 1=Yes
Data Envelope...............  1     0=No 1=Yes
Last Update Date: 06/01/11 Time: 12:00:00 User: XXX


Enter PF1=Help           PF3=Exit PF4=User                    PF6=Nxt Env
                               PF10=Updt
```

NCPDP Data Examples

The following data examples illustrate how the NCPDP Reformat programs format the data.

Inbound Example Data

The following diagram illustrates raw batch inbound NCPDP data that is the input to the NCPDP51I reformat program.

```
 00TNCPDPSENDER             897674719941201163 2T11NCPDPRECEIVER
 G1100005432120000251B1     HDB  1120000240        0010202ABC        ? AM04 C298
7654321? AM01 C419620615 C51 C700 CAJOSEPH CBSMITH CM123 MAIN STREET CNMY OWN CO
CO CP34567 CQ2014658923 CX01 CY123456789 CZ50Z123 1C2 ? AM07 EM1 D20000075 E103
D700006094228 C802 D300 D5030 D61 D80 DE20010202 DF05 DJ1 DK00 DT1 E70000030000
ET0000030000 28EA? AM11 D90000557{ DC0000100{ DN03 DQ0000807{ DU0000807{ DX00001
00{ H71 H801 H90000150{? AM02 EY02 E939359? AM03 EZ08 DB00G2345 2E01 DL123456 DR
JONES 1E10 H5101 4EWRIGHT PM2013639572
 99987674700000000009TEST MESSAGE
```

The following diagram illustrates NCPDP Data in the Sterling Gentran fixed format as it looks after running through the NCPDP51I reformat program.

Note: This example displays only the first 120 bytes of each record.

```
  00TNCPDPSENDER             897674719941201163 2T11NCPDPRECEIVER
  G11000054321
  TH20000251B1     HDB  1120000240        0010202ABC        B1QNCPDP51SC
AM01CX01CY123456789           C419620615C51CAJOSEPH      CBSMITH          CM123 MAIN STREET               CNMY OWN
AM04C2987654321                                                         0                                      0
AM07EM1D20000075E103D700006094228         0000000  00000000  0                              E70000000030D300D5030
AM02EY02E939359
AM03EZ08DB00G2345        1E10 DRJONES          PM20136395722E01DL123456         H51014EWRIGHT
AM11D90000005EDC0000001{  0000000{DX0000001{  0000000{H71H801H90000001E    0000000{     0000000{    0000000{      0
  99987674700000000009TEST MESSAGE
```

Outbound Example Data

The following diagram illustrates application data used as input to the Outbound Mapper.

```
N00T NCPDPSENDER             00012342001062712 00T11NCPDPRECEIVER
NG10000000001
NTH60600151B100000000012XXPROVIDER       20010601VENDORID
N04288-12-345678       FIRST NAME  LAST NAME      FACILITY ID
N07X1122334ZZABCDEFG            000000150001030C0000010000150
N11000200000000250000002500000250000002500000025000
N07X5544332ZZHIZJLMNOP          000000200001030C0000040000200
N11000100000000250000002500000100000001500 0
N990001234000000000 0TEST MESSAGE
```

The following diagram illustrates application data that has been translated into the Sterling Gentran NCPDP fixed format by the Outbound Mapper. In this example, the X User Envelopes are not used.

Note: This example displays only the first 120 bytes of each record.

```
  00TNCPDPSENDER             00012342001062712 00T11NCPDPRECEIVER
  G10000000001
  TH60600151B100000000012XXPROVIDER       20010601VENDORID  B1Q
AM04C2288-12-345678      CCFIRST NAME  CDLAST NAME                     8CFACILITY I
AM07EMXD21122334E1ZZD7ABCDEFG
E70000001500D301D5030
AM11D90002000{DC0000250{BE0000250{DX0002500{
AM07EMXD25544332E1ZZD7HIZJLMNOP
E70000002000D301D5030
AM11D90001000{DC0000250{BE0000250{DX0001000{
  990001234000000000 0TEST MESSAGE
```

The following diagram illustrates application data that has been translated into the Sterling Gentran NCPDP fixed format by the Outbound Mapper. In this example, the X User Envelopes are used.

Note: This example displays only the first 120 bytes of each record.

```
  0XTESTSENDER             0000016200108140913T11TESTRECEIVER
  GX0000000016
  TX606BIN51B10000000016                       3333333333
  00T
  G1
  TH                   2XXPROVIDER       20010601VENDORID  B1Q
AM04C2288-12-345678       CCFIRST NAME  CDLAST NAME                       8CFACILITY I
AM07EMXD21122334E1ZZD7ABCDEFG                                                          E70000001500D301D5030
AM11D90002000{DC0000250{BE0000250{DX0002500{
AM07EMXD25544332E1ZZD7HIZJLMNOP                                                        E70000002000D301D5030
AM11D90001000{DC0000250{BE0000250{DX0001000{
  99       0000000000TEST MESSAGE
  9X0000016
```

The following diagram illustrates NCPDP data that has been compressed by the NCPDP51O reformat program and is ready to be sent to your trading partner.

```
 00TNCPDPSENDER             0001234200106271200T11NCPDPRECEIVER
 G10000000000160600151B100000000012XXPROVIDER       20010601VENDORID  ? AM04 C2288-12-345678 CCFIRST
NAME CDLAST NAME 8CFACILITY I ? AM07 EMX D21122334 E1ZZ D7ABCDEFG E71500 D31 D530? AM11 D92000{ DC25
0{ BE250{ DX2500{ DU2500{ ? AM07 EMX D25544332 E1ZZ D7HIZJLMNOP E72000 D31 D530? AM11 D91000{ DC250{
 BE250{ DX1000{ DU1500{
 9900012340000000006TEST MESSAGE
```

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Glossary

See the Glossary in the *IBM® Sterling Gentran:Basic® for z/OS® Release 6.6 User Guide* or *Technical Reference Guide* for additional terms and definitions related to Sterling Gentran processing.

Definition of Terms

Fixed-Format Standard

A fixed-format standard is one that can be defined as multiple segment types with fixed-length elements within these segments. There are no element separators or segment terminators defined for these standards. A comparison and contrast between fixed- and variable-format standards is presented in Chapter 1 of this guide.

Partner/Qualifier Mode

This is trading partner processing method which defines your organization and each trading partner as separate and distinct entities on the partner profile. This mode permits each trading partner to be used in multiple relationships.

Proprietary Standard

A proprietary standard is one that is developed by one or more organizations for use among themselves. These standards are not supported by any national, international, or industry standards groups. Proprietary standards can be either fixed- or variable-format.

Relationship Mode

This is trading partner processing method provides uniqueness for identification purposes that would not be possible if the trading partner was defined using the Partner/Qualifier method. This mode requires you to first identify the inter- or intra- business relationships. Each identified relationship is then defined separately and distinctly on the partner profile. This method is ideal for defining multiple entities within your organization with shared (common) trading partners.

Sterling Gentran:Control

An add-on product to Sterling Gentran:Basic for z/OS that enables you to automate the EDI processing stream and prioritize processing by trading partner and/or type of document. Sterling Gentran:Control enables you to organize processing and responsiveness based upon business criteria, not system limitations. In addition, the application and communications gateways expedite the movement of documents across the batch/CICS barrier.

Sterling Gentran:Plus

A comprehensive software system that provides a seamless application-to-EDI interface. Sterling Gentran:Plus can work in conjunction with Sterling Gentran:Basic for z/OS, or as a stand-alone product. Sterling Gentran:Plus contains these three subsystems: Communications, Translation, and Communications Setup and Management. Sterling Gentran:Plus can accommodate an unlimited number of transactions while using an unlimited number of EDI standards versions. It supports multiple lines with different protocols for concurrent EDI sessions. This combination of translation, communications, and mailboxing represents a highly efficient EDI resource that can be used to automate your communications needs.

Sterling Gentran:Realtime

An add-on product to Sterling Gentran:Basic for z/OS that facilitates the transmission of data processing in an operating mode when data is entered in an interactive session, as opposed to a batch session. Response time is drastically reduced over batch processing, providing the competitive benefits of online speed, flexible control, and universal EDI standards to many business applications.

Sterling Gentran:Structure

An add-on product to Sterling Gentran:Basic/Realtime that enables you to define proprietary fixed-format standards using the Standards subsystem, and map to and from these standards using the Inbound and Outbound Mapping programs.

Sterling Gentran:Viewpoint

A Sterling Gentran product that consists of these two modules: Exception Management and Tracking Management. Exception Management enables you to capture exception information, notify the appropriate user, and optionally take automated action for exceptions that are specific to their EDI business needs. Tracking Management is an optional module that enables you to query on the status and history of a document as it moves through the entire end-to-end EDI environment.

Variable-Format Standard

A variable-format standard is one that complies to either ANSCX12, EDIFACT, or TRADACOMS syntax rules. These standards have delimited elements and delimited segments. Only significant data is transmitted. Trailing spaces and leading zeroes are eliminated. Unused data elements are not sent. A comparison and contrast between fixed- and variable-format standards is presented in Chapter 1 of this guide.

Reserved Word Constants

The following reserved word constants are available for use during Inbound Mapping of a fixed-format standard. Data will be loaded to these constant values by the Inbound Pre-Processing program if the corresponding envelope elements have been defined for inbound envelopes.

See the descriptions for the User Envelope Specification screen and the Version Outbound Specification screen in Chapter 3 of this guide for more information.

GEN-INT-SNDR	Contains the value of the Sender Element defined on the Interchange level envelope.
GEN-GRP-SNDR	Contains the value of the Sender Element defined on the Group level envelope.
GEN-TRN-SNDR	Contains the value of the Sender Element defined on the Transaction level envelope.
GEN-INT-RCVR	Contains the value of the Receiver Element defined on the Interchange level envelope.
GEN-GRP-RCVR	Contains the value of the Receiver Element defined on the Group level envelope.
GEN-TRN-RCVR	Contains the value of the Receiver Element defined on the Transaction level envelope.
GEN-INT-REF	Contains the value of the Reference Number (Control Number) Element defined on the Interchange level envelope.
GEN-GRP-REF	Contains the value of the Reference Number (Control Number) Element defined on the Group level envelope.
GEN-TRN-REF	Contains the value of the Reference Number (Control Number) Element defined on the Transaction level envelope.
GEN-INT-ELE-01	Contains the value of the Generic Element 1 defined on the Interchange level envelope.
GEN-INT-ELE-02	Contains the value of the Generic Element 2 defined on the Interchange level envelope.
GEN-INT-ELE-03	Contains the value of the Generic Element 3 defined on the Interchange level envelope.
GEN-INT-ELE-04	Contains the value of the Generic Element 4 defined on the Interchange level envelope.
GEN-INT-ELE-05	Contains the value of the Generic Element 5 defined on the Interchange level envelope.
GEN-INT-ELE-06	Contains the value of the Generic Element 6 defined on the Interchange level envelope.

GEN-INT-ELE-07	Contains the value of the Generic Element 7 defined on the Interchange level envelope.
GEN-INT-ELE-08	Contains the value of the Generic Element 8 defined on the Interchange level envelope.
GEN-INT-ELE-09	Contains the value of the Generic Element 9 defined on the Interchange level envelope.
GEN-INT-ELE-10	Contains the value of the Generic Element 10 defined on the Interchange level envelope.
GEN-GRP-ELE-01	Contains the value of the Generic Element 1 defined on the Group level envelope.
GEN-GRP-ELE-02	Contains the value of the Generic Element 2 defined on the Group level envelope.
GEN-GRP-ELE-03	Contains the value of the Generic Element 3 defined on the Group level envelope.
GEN-GRP-ELE-04	Contains the value of the Generic Element 4 defined on the Group level envelope.
GEN-GRP-ELE-05	Contains the value of the Generic Element 5 defined on the Group level envelope.
GEN-GRP-ELE-06	Contains the value of the Generic Element 6 defined on the Group level envelope.
GEN-GRP-ELE-07	Contains the value of the Generic Element 7 defined on the Group level envelope.
GEN-TRN-ELE-01	Contains the value of the Generic Element 1 defined on the Transaction level envelope.
GEN-TRN-ELE-02	Contains the value of the Generic Element 2 defined on the Transaction level envelope.
GEN-TRN-ELE-03	Contains the value of the Generic Element 3 defined on the Transaction level envelope.
GEN-TRN-ELE-04	Contains the value of the Generic Element 4 defined on the Transaction level envelope.
GEN-TRN-ELE-05	Contains the value of the Generic Element 5 defined on the Transaction level envelope.

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